CREE
PSALMS & HYMNS

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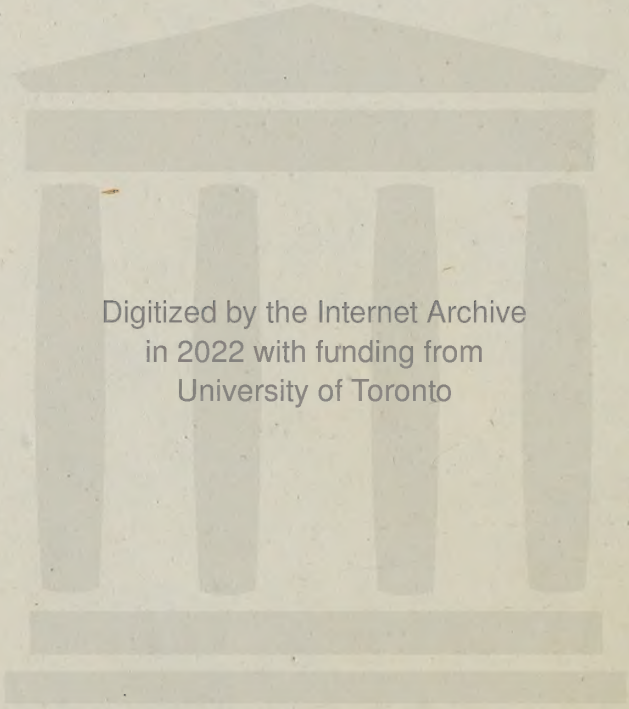
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ᐊᔨᒥᐊᐧᐃᐣ ᓂᑲᓇᐤ

A COLLECTION

OF

Psalms and Hymns,

IN THE LANGUAGE

OF THE

CREE INDIANS

OF NORTH WEST AMERICA.

COMPILED BY THE

RIGHT REV. JOHN HORDEN, D.D.

BISHOP OF MOOSONEE.

Adapted for the use of the Indians of the York Factory District, by the Rev. W. W. Kirkby.

LONDON:

PRINTED FOR THE

CHURCH MISSIONARY SOCIETY,

Salisbury Square.

1876.

LONDON:
PRINTED BY GILBERT AND RIVINGTON,
ST. JOHN'S SQUARE, AND 28, WHITEFRIARS STREET.

ᓂᓪ ᐊᐧᐊᓯᒥᓯᓗᑦ ᓄᖅᐱᓪ ᑲ ᓴᓱᐃᑕᐧᑲᑦ

ᐅᑕ ᓂ ᑭ ᒪᐧᐊᑎᑕ ᒥᒣ ᓂᑲᒍᐧᐃᓄᒃ ᕿ
ᐃᐸᑎᑕᔪᑦ ᐯ ᓂᑲᒍᑎᑕᐧᐯᑦ ᐊᓄ ᑲ ᑭ ᐊᓯᐃᑕᑦ
ᒥᒣ ᐅᐅ ᑭᐧᓗᖅ ᑭ ᑭ ᑭᖅᕿᓂᑌᓄᐧᐊᐧᓂ, ᐊᐳᑎᑲ
ᐊᖅᐱᔭ ᑲ ᒪᐧᐃ ᑭᖅᕿᓂᒥᒣ ᐊᓂᐃ ᑦᐯᐧᐃᓄ
ᒥᓱ ᐃᑎᒍᐧᐅᓂᑦ ᑲ ᒪᓯᓄᐃᑲᑌᑭ ; ᑭᑎᒪᓂᔨ
ᐅ ᓴᓱᐃᐧᐯᐧᐃᔪ ᐅᑎ, ᑎᔭᖅ ᐅ ᓂᐱᐧᐃᔪ, ᓗᖅᑕ
ᐅᑦ ᐊᔨᖅᕿᐧᐃᔪ ᑲᑲᓀᑎᓯᑦ ᐊᐁᑦ, ᐃᖅᐱ ᑎᐱᖅ-
ᑭᓯᐧᐃᓂᑦ ᑲ ᑭ ᐅᑎ ᓓᔨᒥᑲᐧᐃᐧᐃᔭᑦ ᑭᑎ ᓀᑕᒣᑦ
ᒥᓂ ᐊᑎᒍᐧᐃ ᐧᐊᖅᑌᐧᐃᔪ ᑯᑕᑭᐅ ᐊᓂᒃ ᐯᐧᕃᓀᑦ
ᐯ ᐧᐊᕿᑕᒣᑦ ᑭ ᑲ ᕃᑭᓀᐅᓀᐧᐊᐧᓄ ᒪᑲ ᐯ ᑭ
ᒪᓯᓀᐃᑲᑌᑭ ᑭᑎ ᓴᐧᑲᒥᓯᐧᐃᐧᐃᓂᑦ, ᐊᑎᐱᐧᑯ ᑭᑎ
ᕿᓄᑌ ᑭᖅᕿᓂᒣᑦ, ᑭᑎᒪᓂᔨ), ᐅ ᕿᓂᑭᓯᐧᐃᔪ, ᐅ

ᓴ·∇σᒥᑫ·Δ›, ᒥᓇ ᐅ ᑲᑭᑫ ᓴᑭᐃ·∇·Δ› ᐅᑕ Δᑕ-
·ᑲ·ᓇ σᑲᒍ·Δᓇ ᒍᓴᑦ ᑭᒋ σᑲᒍᐊᓂ·ᐊᑭ, ᑫ σᑲ-
ᒍᓴᑦ ∇ ᑫᑭᓴᐸᑦ ∇ ·ᐊσ^ᑲᓴᑦ, ∇ ᐅᑦᑯᓯᑦ
∇ ᑲ·Δᓯᒍᓴᑦ, ∇ ᐊᐳᒥ∇·Δ ᑭᓯᑲ›, ᓂ^ᑕ ᒣ·ᑲ⁻
ᐊσΔ ∇ ᒋᒋ ᑭᓯᑲᑭ ᑲ <ᓂᑭ ᑲᓇ·∇σᑕᑭ› ᒷᒪ·Δ
ᐅᑕᐳᒥᐊ·ᐊ› ; σᑲᒍ·Δᓇ ᑫ ᐊ<ᒥᑦ′ ᐊᑲ› ∇
ᑯᓯᑯᒪᒥᑦ′ ᐅ ᒪᒥ·ᑕ·Δᓇ, ᐊᑲ› ∇ ᒥᓇ·ᐊᑕ·Ꮮ′
X ᐅ ∧ᒷᒥΔ·∇·Δσσ°, ᐊᑲ› ∇ ΔUUᐳᑕₓ
·Δ<⁻ ᒋᒋ ᐊᓯ·ᐊᐊ، σ∧·Δσ ᓯ∧ᐳ°, ∇
Δ›Uᑊ ᒥ·∇σᑕᒍ·Δ ᐊ^ᑭ›, ᐊᑲ› ᓇ^∧⁻ ∇ ᓇᓇ^
ᑯᒍ′ ∇ ΔUσᑕ› ᑲ ᑭ ›ᑕᒪᑯ′ ᒋᒋ ᒪσ›·ᐊ,
σ^ᑕ ∇ ·Δ ᒪᒥᒥᒪ′ ᒋᒋ ᐅᒥσ·∇·Δᓇ ᐊ-
<ᒥᑕ› ᐅᒪ ᒪᓯᓇΔᑲ›, σ′ ᐊ·ᐊᓯᒥᓯᔨ›,
ᑕ·ᑕ° ∇ ᑭᓯᑲ› ; ᓇᒪ·Δᓇ ∧ᑯ ᒣ·ᑲ⁻ ·ᐊ^-
ᑲᐳᑲσ› ∇ Δᑦᑦ›, ᒪᑲ Δ^∧ ᓂ^∧ ᓄᒥᒥ›
ᓂ^ᑕ ᒪ^ᑫᑯ› ∇ Δᑦᑦ› ∇ ᓇᓇᑕ·ᐊ<ᑕᒣ›
ᑭ ᒥᒥᒥ·ᐊ° ; ∇ᑯᓯ ∇ ᑫᑭᓴᑦᐸ›, ᓂ^ᑕ

▽ ᐅᑦᑯᓯᑦ, ▽ ᖃᑭᓱᑦᓴᑦ, ᓂᐢᑐ ▽ ᐅᑦᑯᓯᑦ, ▽ ᐊᓴᒥᐅᑭᓯᑲᑦ, ᓂᐢᑐ ᒥᓯ·▽ ᑯᑐᑭᓴ ▽ ᑭᓯᑲᑭ, ᐅᐱᓇᒪ·Δᑦ ᑭ ᑭᑭᒪᓂᑐᒥ·ᐊᐤ ᑭ ᓂᑲ-ᒧ·Δᓂ·ᐊ·ᐊₓ ᑭᑭᒪᓂᑐ ᒥ·▽ᓂᑐᑦ ▽ ᐯᑐ·ᐊ′ ᐅ′ ᐊ·ᑯᓯᒥᓴ ▽ ᓂᑲᒧᓂᑭ; ᐱᑐᖃᓴ·ᖁ ᑭᑭ ᑭᓯᑯᓵ ᒧᓴᑦ ᑭ ᑲ ᐃᒥᑭᒥ·ᐊᓇ·ᐊᐤ; ▽ᑐᑲᓇᑦ ᒥᓇ·ᐊᑐ·ᒪᑦ ▽ Δᑐᑕᑭᑦ, ▽ᑯ ᖁ Δᑎᐳᑭᕐᑐ, ▽ ᒪᑭ ᑐᑕᒪᑦ ᐅᑐ ᖃᐳᐱᐢ ᖁ ᑐᑕᒪᑦ ᕮᑎᒪ

ᒥᑫ′ ▽ Δᑕᓯᖅᑦ ᓇᒪ ▽ᐢᑲ ᑭᑭ ·ᐊᕮ-ᒥᑎᓇ·ᐊᐤ, ᒪᑲ ᑭᑭᒪᓂᑐ ·Δᑭᐱᑕᑌ, ᓂ ᑲ ᑯᑭ ᑐᑌᓱ ·Δᕮᐢ Δᐢᐱᐢ ᖁ ᑭ ᑐᑕᒪᓱ ᑭᑭ ·ᐊᕮᒥᑕ·ᑲᓵ, ▽ᑯ ᖁ ᒪᒪ·Δ ᓂᑲᒧᐢᑕ·ᐊᓵ ᐊᓇ ᑭᑭᒪᓂᑐ ᑲ ᑭ ·ᐊᐢᑲᐢᑕᑕᑦ ᒥᑫ′ ᓴ·▽ᐅᑭᖁ·Δᓇ.

ᑯᑕ·Δ·ᐊᐤ, ᑭᓴᐢ **X** ᐅᑭ

ᓴᓗ ᒧᓯᓂ

ALPHABET.

INITIALS.	SYLLABLES				FINALS.
	ā	e	o	a	.
a	▽	△	▷	◁	° ow
w	·▽	·△	·▷	·◁	X Christ
p	⋁	⋀	>	<	' p
t	∪	∩	⊃	⊂	′ t
k	٩	ρ	ძ	ხ	` k
ch	٦	ſ	ᒍ	ᒐ	¯ h
m	ᒣ	ᒥ	ᒪ	ᒫ	ᶜ m
n	ᓄ	ᓅ	ᓇ	ᓈ	ɔ n
s	ᔦ	ᔨ	ᔭ	ᔮ	ᶜ s
y	ᕀ	ᕂ	ᕄ	ᕅ	⋟ r
					⋞ l

The dot over any syllable lengthens the vowel sound

σbJ·Δ LᓯᓭΔbↄ

ᖃᑭᓴᐸ σbJ·Δↄ

1. σ^ᑦᑦ

1. ∇·b ძ^ძᓯ σ′ ᐊi᷊ᑊ
ᑭ′ ᐊↄ^ᖃ·Δↄ ᐅᑎᓭ
ᑭσᐱ Lb ·ᐊσ^b
ᖃᑭᓴᐸ ᐊᓗᒥᐊ

2. ᓰ^ᐱ⁻ ᑭ ᓭᓰ^ძᒥᑎↄ,
b ᑭ bᓭ·∇σᒥᓗᑦ
ᑌᐱ^b᷊ ᒣ·b⁻ ᓂᐸᓗↄ;
ᖃᓗᐱ⁻ bᓭ·∇σᒥↄ

3. ᒥᓭ ᑭ ᓭↄᑕᒪᑎↄ
ᑭᒋ ·∇<ᐊL·Δᓗↄ
ᒥᓯ·∇ b Lᓭᑕᑭ
Δ^ᐱ⁻ ᖃ ᐱiᒪᑎᓯᓗ᷊

4. ᑎᐯᓂᑕ ᐁ ᑭᓯᒃᑦ
ᕿ ᐅᑕᒪᓗ, ᕿ ᐃ·ᑌᓴᓗ
ᓂᓴ·Δ′ ᓂᑦᑕ ᐊᒃᔨᑦ
ᑭᒋ ᑭ ᒪᒥᒋᒥᑕᔪ

5. ᒪᒥᒋᒥᑦ ᑭᒋᒪᓕᓗ
ᒥᓯ·ᐁ ᑭᓭ·ᐊᓂ ᐊᐟᑭᑦ
ᐊᓯᒋ ᑭᒋᑭᓯᔨᑦ
ᒪᒥᒋᒥᖅ ᑭᒋᒪᓕᓗ

ᕿᑭᓴᐸ ᓂᒃᒍ·Δᓗ

2. ᓂᓯ

1. ᑭ ᑭ ᒃᓭ·ᐁᓂᒥᓭᔪ
ᒣ·ᒃᐨ ᒃ ᓂᐸᐅᓕᑦ,
ᒥᓭ ᓂ ᑭ ᑯᐟᑯᓯᓭᓗ
ᒋ ᓭᓰᔪᒥᑦᑦ

2. ᐊᓅᐨ ᑭᐟᑭᓄᑕᐃᓭᓗ
ᐁᓯ ᐱᒍᑌᓴᖅ
ᐁᒃ ᐁ ᑭᐟᕿᓂᑕᒪᑦ
·ᒃᓴᐟᑦ ᕿ ᐃᑎᓴᑦ

3. ᕿ ᐃᑎᐅᓴᑦ, ᕿ ·ᐃᑌᓴᑦ
ᑭᒋ ᓄᑯᑦᑕᓴᑦ

▽ ·△ bᓀ·▽σᑕᒪᑊ
b △ᑕᓯᒥᒃᑊ

4. ᓯᑐᓂ ᒥᑎᒥσᓀᓄ
ᑭᒋ △ᓯ·ᑦᒃᑊ
ᕿᑎᒪ ᒋ ·◁ᐸᑕᒪᑊ
ᑭ′ ᐅᑭᒪ·△·△ᓄ

ᐅᑕᑯᓯᑊ σbᒧ·△ᓄ

3. σᐢᑐ

1. ᐞᐢᐱᑉ ᑭ ᒪᒥᑎᒥᑎᑐᓄ
▽ ᑭ ·◁ᐢᑌᓀᒪ·△ᒃᓄ;
ᐅ ᒥᔪ ᑭᑎᒪσᑐ,
bᑭ9 bᓀ·▽σᒥᓄ

2. ᒥᑐσ ◁ᕽᓀᒪ·△ᑐ
b ᑐᑕᒪᓄ b ᐃᓀᑕx
△ᐢᑯᐞᑊ ᑭ ᑯᐢᑯᓯᒃᑐ
ᑭᒋ bᐅᒥ·bᒥᐅᓄ

3. ᐅ △ᓯ ᐱᐃᑎᓯᐅᓄ
▽b ᑭᒋ ᑯᐢᑕᑎᐅᑐ
ᑭᒋ ᓀbᑕᒪᑐ ◁ᐢᑭ
σᐱ·△ᓄ ᐞᑎᑯᐅᓂᓂ

4. ᐅ ᓂ᐀ ᐊᐃᑦ ᐊ·ᓄᐱᐃ
ᑭᒋ ᑭ ᒥᓂ ᓂᕿᐅᓗ
ᒥᓪ ᕐ ·ᐊᓂᖏᑲ·ᐊᓄ
ᑭᒋ ᑭ ᐊᑐᖏᖏᑦᑕᓗ

ᔅ. ᒪᒥᒋᒥᑦ ᑭᒋᒪᓗᑐ
·ᐁᒋᕿᓂᑦ ᑲ ᒥ·ᐊᓯᑦ
ᐅᑕ·ᐃᒪᓄ ᑯᓯᓯᒪᓄ
ᓂᖏᑕ ᑲᓪᑎᓯ᐀ ᐊᐃᑦ

ᐅᑕᑯᓯᑦ ᓂᑲᒍ·ᐃᓗ

4. ᓄᐅ

1. ᒋᕆᖏ ᒥᕓᑐᑕ·ᐃᓪᓗ
ᐁᒍᔪᖅ ᐱᒥᓯᓪᑦ;
ᓂ ᒪᒋᐱᐃᒪᑎᓯᓪᓗ,
ᓂ ᑭᑎᒪᑭᓯᓪᓗ;
ᐅᒪ ᓂ ᑭᖏᕐᐳᑌᓪᓗ
ᒣ·ᑲᒃ ᐁ ᑌ·ᔨᑎᑦᑦ,
ᓂ᐀ ᐊᖏᐯᐳᒍᑌᓪᓐ
ᑭ ᓴ·ᐁᐳᒋᕐᓐᓗ

2. ᓴᖏᐱᒃ ᑲᖏᑎᐱᖏᑲᕐ
ᕐᓗᐱᒃ ᑭ ᑲ·ᐊᐱᓗ

ᑭᒋ ᑲᓇ·∇ᐳᒪᒋᑦ
ᑭᓱ ᐊᑐᖏᓇᑲᓇᑦ
ᑭᓴᖏᐅ ᓇᑎᑯᐅᕐᖏ
ᓂᐱᒃᐅᓂ ᖏ ᑎᐱᖏᑲ
ᓂ ·∆ ᑯᖏᑯᓇᓂ ᐊᑐᑕ
∇ ∆ᓯ ᑕᓯᖏᐅᓂ

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5. ᓂᐅᓇᓂ

1. ᑭ ᑭ ᑲᓇ·∇ᐳᒥᓇᓂ
ᐅᒪ ᑲ ᑭ ᑭᓯᑲᑦ,
ᒥᓇ ᑲᓇ·∇ᓂᒥᓇᓂ
∇ ᐊᑎ ᓇ∆ᓯᓇᑦ;
ᒋᓴᖏ ᑲ ᐱᒧᒋ∆ᐅᑦ
ᑭ ·∆ ᓴᑭ∆ᑎᓵᓂ

2. ᐅᑕ ᓂ ᐱᒍᑌᐅᓵᓂ
ᒣ·ᑲᒃ ᕿᖏᐱᓂ·∆ᓂᓪ
ᑲᑭᐅᓂ ᐱᒧᒋ∆ᓵᓂ
∇ ᒪᒥᓯᒍᑦᑦᑦ
ᓂᐱ·∆ᓂ ᐅᑎᑦᒧᒣ
ᑭᒋ ᑭ ·∆ᒣ·∆ᑦ

ᐅᒋᑯᓱᑦ ᓂᑲᒧᓐᐃᔪ

6. ᓂᑯᓐᑕᓱᑦ

1. ᕿᓭ ᐅᐱᒪᒋᐃᓐᐁᓄ,
ᓐᐁ ᐱᓱᒧᒥᓱ ᓂᐟᐊᐅᑦ;
ᐁᑲᓐᐃᖅ ᐅᒪ ᐊᑎᕈ
ᓂ ᑲ ᐊᑲᓐᐊᑎᑌᖏᑲᑯᔪ

2. ᐊᑎ ᓂᖏᕈᓐᑲᒥᐅᖅᓄ
ᐅᒪ ᓂ ᑲ ᓐᐃ ᕈᖏᓱᔪ,
ᐁ ᐃᓱ ᒥᓐᐁᐳᑕᓐᑲᑦ
ᕈ ᑲᓭᓐᐁᐳᒥᓐᐁᓐᐃᔪ

3. ᓐᐃᒋᐃᓭᔪ ᐁ ᕈᓱᑲᑦ
ᕿᓭ ᑲ ᐱᒪᒋᐃᖅᓴᑦ;
ᓐᐃᒋᐃᓭᔪ ᐁ ᑎᐱᖏᑲᑦ
ᕿᓭ ᑲ ᐊᖏᐯᐳᒧᖅᓴᑦ

4. ᓭᓱᓭᔪ ᑯᖏᑯᓱᕐᕿ
ᐁᒧᒉᔭ ᐁ ᐊᑐᖏᕐᕿᓴᑦ
ᐱᓂᖏ ᕈᒋ ᐊᑎᑕᒪᓴᑦ
ᒥᓐᐁᐳᒧᓐᐃᔪ ᐃᖏᐱᒥᑦ

▽ ◁ᓴᒥ▽ᑭᓯᑦ ᖃᑭᓴᐸ ᓂᑲᒧ·Δᓗ

7. ᑌᐸᑯᑊ

1. ᒪᓂᑐ ᑭ ᑦ ᐯᑕ·Δᑐ
   ▽ ᖃᑭᓴᐸᑦᓴᑊ
   ▽ ᐃᐃᑐᒥᑕ ᓂᑢᑕ
   ▽ ᓀᐃᑢᑯᒥᑕ

2. ▽ᑯᑕ ▽ Δᑕ′ ᑭᓴᑢ
   ᓂ ᑲ Δᒋᐱᓀᑐ
   ▽ᓴᒥᑢᑕᒪ·Δᓴᒥ′
   ▽ᑕᑢᑕᒪᐱᓴᑐ

3. ◁ᓂᑭ ᑦ ᒪᒥ·ᑕᒥᑊ
   ᓀᒪ·Δᓀ ᑕ·ᐯ
   ᑭ ᑦ ᐅᑎᑢᑦ·Δᑢᑦ·ᑲᑊ
   Δᑢᐱᒥᑊ ᑭᓯᑯᑊ

4. ᑭ ·◁ᑢᑦᐳᑦᓂᑊ ᒪᑲ
   ᓂ ᑲ ·Δ ᐱᐅᑦᑐ
   ᑭ ᓴ·▽ᐳᑭᕐ·Δᓀ
   ᑭᒥ ᑭᑢᑭᓯᓴᓐ

5. ᒥᐳᓀᐣ ᑭ ᒥᓯ ◁ᒋᑊ
   ᑭᒥ Δᐅᑕ′

ᐁᓯ ᓇᑕ·ᐁᓗᒥᓴᓐ
ᑭᒋ ᐱᒍᑌᓴᓐ

ᐁ ᐊᓴᒥᐁᑭᓯᑲᑦ ᖃᑭᓴᐸ ᓂᑲᒍ·ᐃᓐ

8. ᐊᓗᓇᓄᐅ

1. ᑭ′ ᐊᑐᖏ·ᐃᓂᓇ·ᐊ
ᒥᓇ ᑭ ᑭᓯᑕᓂ·ᐊᓐ ;
ᓂ′ ᐊᐃᑦ, ·ᐃ ᒥ·ᐁᓗᑕ
ᐁ ᐊᓴᒥᐁᑭᓯᑲᑦ

2. ᐅ ! ᓇᖏᐱᐧ ᓇᓇᖏᑯᒪᑕᐤ
ᑭ ᑭᒋᒪᓂᑐᒥᓇᐤ ;
ᓇᑐᑕᒪᑕᐤ ᐃᖏᐱᒥᑦ
ᒋ ᐊᓐ·ᐁᐱᐃᐧᑲ·ᐃᓴᑦ

3. ᐊᓇᓵ ᑭ′ ᐊᓐ·ᐁᐱᓇᓇᐤ
ᐁ ᒪᒥᑐᓄᓗᑕᒪᑦ
ᐁᓯ ᐊᓐ·ᐁᐱᓗᒋ X
ᐅ′ ᐃᓂᓂᒪ ᐃᖏᐱᒥᑦ

4. ᑭ ·ᐃ ᓇᓇᖏᑯᒥᑎᓇᓐ
ᓂ ᑭᓴᒪᓂᑐᒥᓐᓇᓐ

ᒍᓱᑦ ᐁ ᐧᐊᕿᑎᓂᓵ
ᑭ ᓴᐧᐁᐳᒥᑫᐧᐃᓇ

5. ᑭ ᑲ ᒥᕐᔪᑌᐃᓇᓄᐧ
ᑭ ᑲ ᒥᐧᐁᐳᒍᐃᓇᓄᐧ
ᑭ ᑲ ᓇᐃᓐᔨᒍᐃᓇᓄᐧ
ᐁ ᐊᐧᐁᐱᐧᐃ ᑭᓱᑲᑦ

ᐁ ᐊᓵᒥᐁᑭᓱᑲᑦ ᐅᑕᔨᓱ ᓂᑲᒍᐧᐃᐢ

9. ᖃᑲᑦ ᒥᑕᑦ

1. ᐁᒍᔪᓵ ᐳᓄᕐᓂᑦ
ᐊᓵᒥᐁᑭᓱᑲᑦ
ᑭ ᓂᑲᒍᐢᕐᑎᓇᓗ
ᑭ ᒪᐧᐃᒍᐢᕐᑎᓇᓗ

2. ᐁ ᑭ ᓴᐧᐁᐳᒥᓵᑦ,
ᐁ ᑭ ᐊᐧᐁᐱᐃᓵᑦ,
ᑭ ᓇᐃᓐᔨᒥᑎᓇᓗ
ᑲ ᑎᐯᐳᒥᖃᓵᓗ

3. ᓂ ᐯᑭᑲᑎᓱᐃᓗ
ᐁ ᐊᓵᒥᐁᐢᕐᑦᑦ,
ᑭ ᑲ ᑭ ᑐᑌᓗ ᐃᒪᑲ
ᒥ ᐊᓴᓪᒪᐧᐃᓵᑦ

4. ᐅ ! ᑭᖅᑭᓄᑕᐃᓇᓗ
ᐅᑕ ᐁ ᐱᒍᑌᓴᑦ
ᐃᑦᐱ ·ᐁ·ᑲᖅᑲᒪᕐᕋ
ᐃᑦᐱᒥᑦ ᐅᑎᓂᓇᓗ

5. ᐅᐅ ᐊᓗ·ᐁᐱ·ᐃᓇ
ᑕ·ᐯ ᓂ ·ᐃᒋᐃ·ᑲᓗ
ᓂᑲᓗ ᒋ ᑯᒋᑦᑕᒪᑦ
ᐊᓗ·ᐁᐱ·ᐃᓗ ᐃᑦᐱᒥ

ᐁᒍᔪᕆ ᐊᓴᒥᐊᓂ·ᐊᑦ

10. ᒥᑕᑦ

1. ᐃᑕ ᐁ ᓇᑭᖅᑲᑐᑦ
ᐊᑎᑦ ᐊᑕᓴᒥᐊ·ᐊᑦ
ᒋ ᐊᓴᒥᐁᑦᑕ·ᐊᑐᑦ
ᑲ ᑎᐯᓵᒋᕕᓂᒥ

2. ᐧᐁᑯᑕ ᑲ ᐃ·ᑌᑦ ᒋᔪᖅ,
ᓂ ᑲ ᓇᑕ·ᐊᐸᒪ·ᐊᑦ
ᒋ ᑭᖅᕕᓵᑕᒥᐊᑭᑦ
ᓂ ᔪ·ᐁᓵᒋᕕ·ᐃᓇ

3. σ ᓇᑭᒃᑐᓇᓂ ᑎᓴᒋ
▽ ᐊᒋᐯᐳᒧᑐᑦᑦ;
ᒥᐳᓇᓂ ᑭ ᒥᓪ ᐊᑲ
ᓰᒋᐱᒻ ᑭᒥ ᓴᑭᐃᑦ

ᑕᑯᓂᓂ ᑎᓴᒋ X

11. ᒥᑕᑦ ᐯᖃᑯᓴᑊ

1. ᕿᐧᒃᓂ ᐯᑕᑯᓂᒪᒃᑊ ?
ᑕᑯᓂᓂ ᑎᓂ X
ᐃσσᑐᑊ, ᐱᑐᑯᐃᑊ
ᐱᒥ ᑭᑌᐃᐧᐊᑊ

2. ᑕᑯᓂᓂ ᒥ ᖃᐱᑯᓭᑦ
ᐅᐅ ᐃσσᐧᐊ
ᑲ ᐃᒪᑯᐱᑎᑯσᒥ
ᒪᒥᒪσᑐᐧᐊ

3. ᑕᑯᓂᓂ ᑭᒥ ᐧᐃᒥᐊᑦ
ᑌᐱᒋᑭᓂσᒥ,
σᒋᑕ ᒥ ᐧᐊᒋᑌᓭᒪᐧᐊᑦ
ᐁᑲ ᐧᐊᐱσᒥ

4. ᑕᑯᓂᓂ ᑭᒥ ᒥσᐧᐁ
ᒥᓪ ᐊᒥᒧᐧᐃᓂᓂ,

ᑭᒋ ᑭᑎᒪᑫᐳᒪ′
ᑲ ᒪᓂᓯᓂᒋ

5. ᐅ! ᑭ ᓂᑲᒧᑦᑕᑎᓭᓗ
ᑲ ᑎᐯᐳᒥᔪᑦ;
ᑭ ᒪᒥᒋᒥ·ᑲᑦ ᓂᑦᑕ
ᒥᓯ·▽ ▽ɔᑲᓭᑦ

ᑕᑯᓯᔪ ᒋᓯᑦ X

12. ᒥᑕᑕ′ ᓂᓯᓴᑦ

1. ᒪᑎᑲ! ·△ᓭ ᑕᑯᓯᔪ
ᑲ ᓂ<◁ᑲᓂ·△′
ᒋ ∧ᐃᒪᒋᐊᑕᑦ, ᒋᓴᑦ
◁ᓭ ᑌᐯᐳᒥᑕᑦ
◁ᕄᐊᕄᐅᔪ
·△ᓭ ᐯᒋ ᑕᑯᓯᔪ

2. ᒪᒪᐤ ᑲᑕ ·◁<ᒥᑯ
▽ ᓯᑲᐊᓭᑯᓯ′
ᒥᓯ·▽ ᑲ <∧△ᑯ′
ᓂᑦᑕ ᑭᑦᑕ·ᑲᐅᑯ′
ᒪᔪᓂ·◁
ᒋᓴᑦ X ▽ ᓄᑯᓯ′

3. ᒥᓯ·▽ ᑲ ᐸ·ᑲᑕᑭᑦ
ᕿ ᓇᓂᑲᑭᒧᒧᑭᑦ
ᐃᑦᐱ ᐅᒪ ᐊᔭᒥ·ᐃᓗ
ᑭᖅᐃ·ᑌᒪᒪᕿ
ᐯᒥ ᐃᑐᑌᑦ
ᑭᒥ ᐊᓂᑭᒥᑕᑦ

4. ᒥᓯ·▽ ᐅᐟ ᐃᓂᓂᒪ
ᐞ ᑭ ᐸ·ᑲᑎᒥᒥ
ᖃᒪᑦ ᑲᑕ ᓇᑭᐢᑲᑯ
ᐃᑦᐱ ᐯᒥ ᓇᓯᑌ
ᐊᕀᐃᕀᐅᔭ
ᑭᖃᑦ ᐯᒥ ᑕᑯᓯᓗ

ᑭᓚᑦ ᐯᓯᐟ ᐃᑕᐤ

13. ᒥᑕᑕᐟ ᓂᑐᖃᑦ

1. ᒪ ! ᐞ ᑌ·ᐸᓂ·ᐊᑦ ,
ᐅ ᑯᐢᑯᓯᔪ !
ᑭᖃᑦ ᐯᓯᐟ ᐃᑕᐤ
ᐅ ᑯᐢᑯᓯᑦ
ᐯᒥ ᓇᑭᐢᑲ·▽ᑦ
ᑭ ᐞ ᒥᓂᑯ·ᐊᐤ

ᐅᐃᓴᑭᐃ·∇·Δ›
ᐅ ᓀᐢᓀᓯᑦ !

2. ᑌ·ᐸᑎᑦ ᒥᓯ·∇
ᐊᓴ·ᐊᐱᑦ !
ᑭᓴᐢ ᐃᑕᓯ·∇∘
ᐊᓴ·ᐊᐱᑦ !
ᐅ ᐊᓴ·ᐊᐸᒥᑦ
ᑲ ᑎᐯᓕᑭᕿ′
·ᐃᐸᒃ ᕿ ᑕᓀᓯᑦ
ᐊ ᓴ·ᐊᐱᑦ !

3. ᑭᑎᑲ·ᐃᓇ·ᐊ∘
ᐊᔪᐢᑲᑎᑦ !
ᑕ ∇ᑕᓯᔪᑦ
ᐊᔪᐢᑲᑎᑦ !
ᑭ′ ᐅᑭᒪᒥ·ᐊ∘
ᑭ ᑲ ᒥᓂᓀ·ᐊ∘
ᑎᐸᒪᕿ·ᐃ›;
ᐊᔪᐢᑲᑎᑦ

4. ᓇᔪᑕᑕ∘ ᑭᓴᐢ
ᐊᔭᒥᐊᑦ !

ᑭᒋᓯᑭᓄᐊᑦ
ᐊᑲᒥᐊᑦ !
ᒪᒋᑦᑕᐃᓗ ᓯᒃᓗ,
X ᒥ ᐧᐃᒋᐃᑦᑦ
▽ ᓇᑦᐧ▽ᐅᒣᑦ
ᐊᑲᒥᐊᑦ!

5. ▽ᑯᐟᐱ ᒪᒪᐧᐃ
ᒪᒥᒋᒥᑦ !
ᑲ ᓂᐳᐟᑕᒧᑦ
ᒪᒥᒋᒥᑦ !
ᑦᐱᐟᑯᒃ ᐃᓗᒃᓇᑦ
ᑲ ᐧᑲᐳᐟᑭᑎᑭᑦ
▽ ᐃᒥᒋᓪᒧᑦ
ᒪᒥᒋᒥᑦ

ᐧᐃᐸᒃ ᑲᑕ ᑕᑯᓯᓗ ᒋᕿᐟ

14. ᒥᑕᑦ ᓄᐅᕿᑦ

1 ᓇᑭᐟᑲ, ᑲᑕ ᑕᑯᓯᓗ
ᑭ ᑭᒋ ᐅᑭᒪᒥᓇᐧᓂ
ᑭ ᑲ ᐃᐩᑕᐃᑯᓇᐧᓂ
ᐳᑦ ᐃᑕᐧᐃᓂᑦ ᐃᐟᐱᒥᑦ

ᑭᒥ ·△ᒥᑕᓯᕐᖏᒪᑦ
ᑲᑭᕐᓂ ᒥ ᒪᒥᒥᒪᑦ

2. ᓇᑭᖅᑲ, ᑲᑕ ᑕᑯᓯᓗ
ᒍᓴᑦ ᐊᓴ·ᐃᐸᒋᒪᑕᓄ
▽ᑲ ᑭᒥ ᐊ·ᓄᑕ·ᐊᑦ
ᒪᑲ ᑭᒥ ᓚᖅᐱᓇᑕᑦ,
▽ ᓂᓴ·△ᔭᑦ, ▽ ᐯᐊᑦ
ᑭᒥ ᐯᒥ ᓇᑐᒥᑕᑦ

3. ᓇᑭᖅᑲ, ᑲᑕ ᑕᑯᓯᓗ
▷ ᑭᖅᑭᓚ·ᐃᐸᒋᒪᑕᓄ,
▽ ᑕᐸᑌᐳᒥᑎᓯᐟ
▽ ᓚᖅᐱᓯᐟ, ▽ ᒥᓚᑕᐟ
▽ᑯ ᑕ·ᐯ ᑫ ᒥᓂᑕᐟ
ᑭᒥ ·△ᒥᐊ·ᓄᐱᒪᑦ

4. ᓇᑭᖅᑲ, ᐯᒥ ᑕᑯᓯᓗ
ᒥᓪ ᐯᒋᒥᐃ·▽ᐅᓗ;
ᕿ·ᓄᖅ ᑭᑭ ᐯᐃᑎᓇᓗ
ᑭᐟ ᐊ·ᐊᓯᒥᓴᑦ ᐃᑕ
ᕿ ·ᐊᐸᒥᖅᑭᑦ ᑲᑭᕐ

ᕕᒪᒃ ᓂᑲᒧᐧᐃᐅ

15. ᒥᑕᑦ ᓂᓴᓇᓄᖏ

1. ᒪ ! ᐁ ᓄᑕᑯᓗᑎᒃ,
ᐁᐅᑲᓇᒃ, ᐁ ᑌ·ᐯᑎᒃ
ᐊᓵᒣᐁᑕᒧᐧᐃᐅ
ᐃᒃᑐᒪ ᑲᑕ ᐃᑕ·ᑲᐅ ;
ᐃᒡᓗᓂ ᑭᑎᒪᓂᑐ
ᓂᒃᑕ ᐅᐟ ᐃᓂᓂᒪ
ᐅᐅᑌᒥᒥᐅ·ᐃᒃ
ᕕ ᐁ ᑭ ᓂᑕ·ᐃᑭᐟ
ᒪ ! ᐁᐅᑲᓇᒃ ᑌ·ᐯ·ᐃ
ᑎᓗᒃ ᕕ ᓂᑕ·ᐃᑭᓂ

2. ᕕ ᑲ ᐃᒥᒥᒥᑯᐟ
ᑭᓯᑯᒃ ᐁᑕᓂᒥ
ᒥᔪᐟ ᐁ ᐯᒥ ᓄᑯᓯᐟ
ᐁ ᐅᒥ ᓂᑕ·ᐃᑭᐟ
ᐃᒣ·ᑫᒃ, ᐁ ᐃᓂᓂ·ᐃᐟ
ᐁ ᑭᑎᒪᓂᑐ·ᐃᐟ ;
·ᐃ ·ᐃᒥ ᕿᓯᑫᒣᓂ
ᐊᓂᐃ ᑲ ᐅᓯᐊᐟ
ᒪ ! ᐁᐅᑲᓇᒃ ᑌ·ᐯ·ᐊᒃ
ᑎᓗᒃ ᕕ ᓂᑕ·ᐃᑭᓂ

3. ·Δᓇᐢᐢ ᐯᒥ ᒥᓂ·∇°
ᐱᐃᒪᑎᓯ·Δᓂᓂᐤᐢ,
ᐯᒥ ·ᐊᓯᓯᑦᑕ·∇°
ᕿᑎᐃᒪᓯᓂᒥ,
ᐯᒥ ᓂ>ᑦᑕᒪ·∇°
ᑲ ᒪᒃᑎᓯᓂᒥ,
ᐯᒥ ·ᐊ<ᑕᒥ·∇°
ᑭᒥᑭᓯᐣ ᒣᑦᑲᓇᐤ°
ᒪ ! ∇ᓗᑲᓇᐣ ᑌ·ᐯ·ᐊᐣ
ᒥᔭᑦ X ᓂᑕ·Δᑭᐤᐢ

ᐯᐟᕄΔᓴᓪ ·ᐊᒃᔨᑦ

16. ᒥᑕᑕᐟ ᓂᔨ·ᑕᓯᔭᐣ

1. ᐊ ! ᒪᑎᑲ Δᓂᓂᑐᐣ
ᕿᑭᔭᐸᐤ ·ᐊᒃᐣ
ᑲ ᐅᒥ ᓄ·ᑲᐣ ᑭᓯᑲᐤ
ᑲ ᒪᓗ·Δᓇᐢᑲᐣ
2. ᐅ ᐯᐟᕄΔᓴᑦ ·ᐊᒃᔨᑦ
ᑭ ·ᐊᐸᑎᓂ·∇°
Δᑕᐢᐢ ᐯᒥᓯᓂᓂᒥ
ᐯᒪᒥ·∇ᓂᒥ
3. ᑭᓴ·ᐊᐤ ᑌᐱᐢᑭᓯᔭᐣ
∇·ᑲ ᐯᒥ ᓱᑎᐣ;

ᑭ ᑲ ·ᐊᑐᑌᓇᒪᓂ·ᐊᐤ
ᐅ ! ᑭ ᐯᐃᓂ·ᐊᐤ

4· ᐅ ! ᒥᓂᑊ ᑭᑌᐃ·ᐊ·ᐊ,
ᐯᒋ ᑭᑐᐳᒥᑊ,
ᐱᒍᑌᑊ ᐅ ·ᐊᑐᑌ·ᐃᓂ
ᒣ·ᑲᐧ ᐁ ᑭᓯᑲᑊ

ᑭᓴᑐ ᐅ ᓂᐱ·ᐃᓗ
17. ᒥᑕᑦ ᑌᐸᓂᐳᓴᑊ

1. ᒥᓪ ᑭᓴᑐ ᐅ ᒥᓂ
ᐊᑐᑭᑊ ᑲ ᓯᑭᐸᓂᑊ
·ᑲᓴᑐᑊ ᓂ ·ᐃᑕᒪᓂᓗ
ᐁᑐᐱᒋ ᒪᒋ·ᑦᓴᓗ

2. ᐃᒪ ! ᐞ ᐃ·ᑌᑦ ᐁ ᓂᐱᑦ
ᓇᑕ, ᐊᔪᓇᒪ·ᐃᑊ
ᐅᓂ ᑲ ᒪᒋ·ᑕᒋᑊ
ᑲ ᑭ ᑭᑐᑐ·ᑲᐅᒋᑊ

3. ᐅ ! ᐁ·ᑲ ᒣᒋ·ᑕᔪᑊ
ᐳᓂ ᒪᑐᑊ ᒥᑐᓂ,
ᑭᓴᑐ ᐁ ᑭ ᑎᐸᐊᑊ
ᒥᓯ·ᐁ ᒪᒋ·ᑕ·ᐃᓗ

4. ᐁ·ᑲ ᒣ·ᓄᓂᑕᒪᓗ
ᐁ ᑭ ᓂᐳᐢᑕᒪ·ᐃ′,
ᓂ ᑲ ᐊᐸᑎᓂ·ᐊᓗ
ᐁ ᐃᐢᐱᑭ ᐠᑭᐊᔪ

5. ᓂ ᐸᑭᑎᓂᑎᓕᓗ
ᑭ ᑭᑭᔪ, ᐅ X ᑭᕆᐢ
ᑭᑭ ᑎᐯᓵᒥᕆᓗ
ᐊᓄᐟ ᓂᐢᑕ ᑲᑭᕐ

ᓂ ᑭ ᓂᐳᐢᑕᒪᔪ ᑭᕆᐢ

18. ᒥᑕᑦ ᐊᓵᓇᓄᐅᕆᔪ

1. ᒪᐢᑲ′ ᑕ·ᐯ ᑭ ᒥᑯ·ᐃ●
ᓄᐱᐠᒪᑭᐃ·ᐁ′
ᓂᓗ ᐅᑭ ᒪᓂᔪᓕᔪ
ᐁᓕᓇᑯᓕᓗᓐ

2. ᓂ ᒪᐠᑎᓕᓕ·ᐃᓇ ᓴ
ᑲ ᑭ ᓂᐸᐃᑯ′ ?
ᒪᐢᑲ′ ᑭᕆ·ᐊᑎᓕ·ᐃᓐ
ᑕ·ᐯ ᐃᕆ ᒥᕆᐣ

3. ᑕᓕ·ᐸ ᐱᓕᐢ ᑭ ᑲᓕ′
ᑭᕆᐢ ᑲ ᓂᐸᐃ′

ᐃᓂᒃᐃᓂᓂᐊ ᐅᒋ
ᐁ ᒥᒋᐧᑕᓂᒋ

4. ᓂ ᑲ ᓇᓄᐯᐧᐃᐃᑯᓗ
ᓂ ᒪᒋᐧᑕᐧᐃᓇ
ᐁ ᒪᒥᑐᓄᐣᑕᒪᓗ
ᑲ ᑭ ᑐᑕᒪᐧᐃ′

5. ᑕᐧᐯ ᒪᑲ ᓇᒪᐧᐃᓇ
ᓂ ᐠ ᑭ ᑎᐸᐁᓗ
ᓂ ᐠ ᐸᑭᑎᓂᑎᓱᓗ
ᐅ ᒋᔭᐧ ᐅᑎᓂᓗ!

ᒋᔭᐧ ᐅ ᓂᐱᐧᐃᓗ

19. ᖃᑲ′ ᓂᓱᑕᓇᐤ

1. ᑭ ᐠ ᐃᒥᒋᒥᑎᓗ
ᐳᓂ ᑭᓱᐧᐊᓱᐣᓗ
ᓂ ᐠᑭᒋᐃᔨᐧᐊᓗ
ᒋᔭᐧ **X** ᐅ ᓂᐱᐧᐃᓗ

2 ᒥᓪ ᐊᒋᒍᐧᐃᓂᐠ
ᓄᐧᑲᓗ ᐁ ᒍᐧᑭᒋᐧᐊᐠ
ᐃᑕ ᑲ ᐅᒋᐸᓂᐠ
ᐱᐃᒪᑎᓱᐧᐃ ᓂᐱ

3. X σ Lᑫb·Δᓯ·Δᓗ
σ ΛİLᑭΔძ·Δᓗ,
σ b σbJᑫᑕ·◁º
Δᑫ∧ᐧ ΛİLՈᓯᓴᓗ

4. LΓᑭΓᑊ ∇σძᑊ,
·ΔᑕJᑊ ḃ ρ ᑐᑕᑊ,
İL·Δ ρᑫUᓭΓᑊ
Γᓯ·∇ Δσσᑐᑊ

ᑭᓴᑫ ρ ·◁σᑫbº

20. σᓯᑕᓐº

1. σΛº ◁ᓐ ḃ ᓴᑭᐊᐟ
◁σΔ ᒣᑭ·ᑕσᒋ;
◁ᑫᑭ ᓐᓐᓐΓᐸσº
bᑫᑭՈVᑫbº Δᑫ∧Γᑊ

2. ᐅ! ᐊᑫᑕΓᑊ Δσσᑐᑊ
ᑭᒋ Γᑐᓄᓭᑕ·ᒣᑊ
ᐅ ᑭᒋ ᓴᑭΔ·∇·Δᓗ
◁ᓐ b σ>ᑫᑕLᑕᑊ

3. İLՈb! ◁ᓴº ·◁σᑫbº
ᒋᐸᓭbΓძᑊ ᐅᒋ

ᐁᓗᓂᑦ! ᐃᓂᓂᑦ!
ᓴᖅᐱᒃ ᒪᒋᑫᓂᑕᒧᑦ

4 ᐃᓂᓂᑦ, ᐳᓂ ᒪᑦ
ᒋᔭᖅ ᐁ ᑎᐯᐅᒋᑫ′
ᓂᐱ·ᐃᓗ ᑲ ᔭᑯᒋᑕ′
ᓂᖅᑕ ᒪᒋᒪᓂᑦ·ᐊ

5. ᐅ! ᑲᑭᑫ ᐱᐃᒪᓕ′
ᑲ ᑭᒋᐅᑭᒪ·ᐃᔭᓗ
ᐢ ᑭ ᓂᑕ·ᐃᑭᔭᕐᓗ
ᑭᒋ ᐱᐃᒥᐃ·ᐁᔭᓗ

ᒋᔭᖅ ·ᐊᓂᖅᑲᓂ

21. ᓂᓗᑕᓴᓂ ᐯᔭᑯᔭᑦ

1. ᐁ·ᑲ ·ᐊᓂᖅᑲ′ ᒋᔭᖅ
ᐃᓂᓂᑦ, ᓂᑲᒧᑦ
ᓂᖅᑕ ᒥ·ᓄᓂᑕᒧᑦ
ᑭᓴ·ᐊᓂ ᐁᓗᓂᑦ

2. ᐊᔭᓂ ᐳᓂ ᒪᓗᑫᓂ,
ᓂᖅᑕ ᑭ ᐸᖅᑭᓴᑫᓂ ;
ᓴᒪ·ᐃᓴ ᐅ ᒥᑯ
ᒥᓴ ᑲᑕ ᓗᑭᓴᖏ

3. ᑭᓴᑦ X ᑭ >ᑦ·ᑲᐊᑦ
ᓂ>·Δ› ᐅ′ Δᑦ·ᑲᑌᑦ
ᑭᒋ ᑭᓯᑦ Δᑦ·ᑲᑌᑦ
<ᑦᑭᑌᓐᒪᑯᓐᓄ

4. ᑭᓴᑦ ᑌᐯᐳᒥᑦ,
·∇ᑦᑲ⁻ ᓄ>ᑦᑦᒪᑦ
ᐊᐱᓄ ᑭᒋᑭᓯᑯᑦ
ᒪᓂ›·ᐊᑦᑌ·Δᓂᑦ

Δᑦᑕ ᓂᑲᒧ·Δ›

22. ᓂᓯᑦᓐᓄ ᓂᓯᓴᑦ

1. ∇·ᑲ ·∇ᓂᑦᑲ′ ᑭᓴᑦ
ᑲ ᓂ ᓂᐱᑯᓯᐸᓄ
ᑭᒋ ᐱᒪᒋᐃᑦ
ᒪᒋᐃᑦᑯᑌᑦ ᐅᒋ
ᐊᕐᕕᐃᕐᐅᓵ

2. ᑭᓴᑦ ᑭᒋᐅᑭᒪᓄ
ᓴᑯᒋᑦᓄ ᓂᐱ·Δ›
ᒥᑦᐸᐳᒪᒥᑦ ᓂᑦᑦ
ᒋ ᒥ·ᓄᓂᒧᐃᑦᑦ
ᐊᕐᕕᐃᕐᐅᓵ

3. ᓯᑭ ᑲᓇ·ᐊᐸᒥᑦ
ᑲ ᐅᒋ ᓴᑭᐃᐱᑦ
ᑭᒥᒪᓂᑐ ·ᐁᑫᑲᒃ
ᑲ ᑭᓯ·ᐊᔪᑯᐸᓗ
ᐊᕐᐃᕐᐅᓴ

4. ᐊᓴᓄ ᒥᓴᑫ ·ᐊᓂᑫᑲᓄ
ᑲ ᑭ ᓂᐳᑫᑕᒪᑦ;
ᐅ! ᓂᑲᒧᑫᑦ·ᐊᑦᓄ
ᓂᑫᑦ ᐃᒥᒥᒪᑦ
ᐊᕐᐃᕐᐅᓴ

ᒥᓴᑫ ᑭᒥᑭᓯᑯᑦ ᐃᐅᑌᓄ
23. ᓂᓯᑦᓇᓄ ᓂᐅᓴᑦ

1. X ᑭᒥᑭᓯᑯᑦ
ᐃᐅᑌᓄ, ᐁᔨᑲᓇᑦ
·ᐊᐸᑎᐳ·ᐁ·ᐊᑦ
ᐁ ᓯᑭᓐᓂᓯᒥᑦ
ᐅ! ᒥᓯ·ᐁ ᐃᓂᓂᐅᑦ,
ᓭᑲᐱᒻ ᓯᑭ ᓂᑲᒧᑫᑦᑦ

2. X ᐅᑦ ᑲ ᐃᑦ′
ᑭ·ᐃᒥᐃᑯᓇᓄ;

ᐊᓂᒧᑕᑦᒪᑕᐅ
ᐅ ᓴᑭᐃᑦᐁᑦᐃᓗ
ᐅ! ᒥᓯᑦᐁ ᐃᓂᓂᑐᑦ,
ᓇᖏᐱᒻ ᓯᑭ ᓂᑲᒧᖏᑦ

3. ᑭᒋ ᐊᐱᑦᐃᓂᑦ
ᐊᓱᒻ ᐊᐱᐅ, ᒧᓴᑦ
ᐁ ᐃᒥᒋᒥᑯᑦ
ᒥᓯᑦᐁ ᐁᓗᓚᓭ
ᐅ! ᒥᓯᑦᐁ ᐃᓂᓂᑐᑦ,
ᓇᖏᐱᒻ ᓯᑭ ᓂᑲᒧᖏᑦ

4. ᐅ! ᑭᓴᖏ, ᑦᐁᐱᓭ
ᓂᑌᐃᓭᑦ ᐅᒋ
ᒥᓯᑦᐁ ᖃᑦᑲᓭ
ᑲ ᐅᒋ ᓂᐱᓴᑦ

ᐅ! ᒥᓯᑦᐁ ᐃᓂᓂᑐᑦ
ᓇᖏᐱᒻ ᓯᑭ ᓂᑲᒧᖏᑦ

ᑭᓴᖏ ᑭᒋᑭᓯᑯᑦ ᐃᑐᑌᐠ
24. ᓂᓯᒡᓭᐠ ᓄᐅᓴᑦ

1. ᐊᓴᐠ ᐃᑐᑌᐠ ᑭᓴᖏ **X**
ᐃᖏᐱᒥᑦ ᑭᒋᑭᓯᑯᑦ

>σ ·◁·△ϟϥᓗᑦᑐ
ᓇᒪ ᒥᓇ ᑲᑕ σΛ°
ᒧᐸᑊ ᒪᑲ Λᐃᒪᑎᓂ°
ᑕ·∨ σ^ᑕ ·△ ᒥσ·∇°
Λᐃᒪᑎ△·∇·△σσ°
ᑲ ᐅᑎ σΛᓂᐸᓐ

2. ᑭ ᑭᑎ ᐅᑭᐃᒥᓇ°
◁ᓇ ᑲ σ>^ᑕᒪᑕᑊ
ᑭ ᑲᓇ·∇σᒥᑯᓇ°
ᑭ′ ◁ᓴᒥ^ᑕᐃᑯᓇ°
ᑭ ᑲ ·◁<ᑎᐳᑯᓇ°
ᑭᒥᑭᓂᑯᑊ ᒣ^ᑲᓇ°
ᑭ ᐅ)ᑌᒥᒥᑯᓇ°,
ᒧᐸᑊ ᐸᑭᐃᑯᓇ°

3. ᐅ ! ᑭ ᑲ ᐅΛᓐᓀᓇ°
ᑭ σᑲᒧ·△σᓇ·◁,
ᑭᑎ ᐃᒥᒥᒪᑊ ◁ᓇ
ᑭᒥᑭᓂᑯᑊ ᑲ ◁Λ′
ᑲ ϟᑯᑎᑦ σΛ·△ᓗ,
ᒥᓂ·∇ ᑲ ᓄᑎσᑯ′

ᑲ ᐅᐸᐊᒧᒪᑦ ᓂᑦᑕ
ᑭᒥᑭᓯᑦ ᐅᓯ ᐃᑉ·ᑲᑌᑦ

ᐅ ! ᑲᓭᑎᓯᓴᓗ ᐊᒋᑦ

25. ᓂᓯᑕᓭᐤ ᓂᓵᓭᓄᓴᑦ

1. ᐅ ! ᑲᓭᒥ ᐊᒃᑦ
   ·ᐊᑉᑌᓭᒪ·ᐃᓭᓗ ;
   ᑎᐱᑉᑭᓯ·ᐃᓗ ·ᐁᐱᓭ
   ᓂᑌᐃᓭᑦ ᐅᒥ
2. ᑭᑫᐳᑕᒥᐃᓗ
   ᓂ ᒪᒥ·ᑕ·ᐃᓭ
   ᐁ·ᑲ ᒪᑲ ·ᐊᐸᑎᓂᓄ
   ᑭᓴᑉ X ᐅ ᒥᑯ
3. ᓂᑌᐃᑦ ᑭᓯᑉᓴ
   ᓂ ᐄᑭᐃ·ᐁ·ᐃᓗ,
   ᓂ ᕕ·ᐯᐸᐳᑕᒧ·ᐃᓗ
   ᒪᑉᑲ·ᐃᑕᒪ·ᐃᓗ
4. ᓭᒪ ᓂ ᑭ ᑐᑌᓗ
   ·ᐃᐸᑊ ᓴᕆᓗ ᓂᑦᑕ
   ᒪᒥᐱᒻᒪᓯ·ᐃᓭ
   ᓂ ᓴᑯᒥᐃᑯᓗ

5. ᓂᑌᐃᓵ ᑕᓯᕐᕿ
ᒥ ᑭᖏᓴᒥᑕᓄ
ᐊᓇ ᓂᖏ ᑲ ᐅᓯᐃᓗ
ᓂᖏ ᐯᒫᒥᐃᓗ

ᐅ! ᑲᓇᑎᓯᓗ ᐊᒃᓵ
26. ᓂᓯᑕᓇᐤ ᓂᑯᓪᑕᓯᖏᓵ
1. ᐅ! ᑲᓇᑎᓯᓴᓄ ᐊᑦᓵ
ᐧᐊᖏᑌᓇᒪᐧᐃᓇᓄ, ᒥᓇ
ᑎᐯᓴᑕ ᑦ ᑐᑕᒪᓵ
ᓂᖏ ᑲ ᐃᑌᓴᑕᒪᓵ
2. ᒧᖏᓵ ᓇᑭᒥᓇᓄ ᐁᑦ
ᑭᒥ ᐧᐃ ᒪᒋᑐᑕᒪᓵ;
ᐅ! ᑭᖏᓄᐊᒪᐧᐃᓇᓄ
ᕿ ᐃᓯ ᐱᒫᑎᓯᓴᓵ
3. ᑕᐧᐯᐧᐃᓄ ᐊᐸᑎᓂᓇᓄ
ᓂᑌᐃᓇᓵ ᐸᑭᑎᓇ
ᓇᓂᒥᐧᐃᓄ ᐁᑲ ᐧᐃᑲᒃ
ᑭᒥ ᐊᐧᓂᓴᓂᑕᒪᓵ
4. ᐅ! ᐃᑐᑕᐃᓇᓄ ᐊᓄᑕ
ᐁ ᐃᑕ′ ᑭᒥᒪᓂᑐ

ᐁᑯᑕ ᕝ ᐊ·ᓗᐱᓕᓐ
ᓂᐢᑕ ᕝ ᒥ·ᓗᓂᑕᒪᑊ

ᑲᓇᒋᐅ·Δ ᓂᑲᒧ·Δᓐ

27. ᓂᓯᑕᓇᓄ ᑌᐸᑯᐳᓴᑊ

1. ᑯᓯᒥᕝ·Δᓂᓇ·ᐊ
ᐁ·ᑲ ᑭᓗᑦ ·ᐁᐱᓇᑦᑊ
ᒥᓴᐢ ᑲ·Δᑕᒪᑯᓗᑊ
ᐁ·ᑲ ᑲ·ᕝ ᐅᑎᓇᑦᑊ

2. ᑭᓂᓯᑲᒪᕝ·Δᓇ
ᑕᑭ ᓂᑲᒪᒥᓯᐅᓐ,
ᒧᓴᑊ ᓂᑲᑕ·ᐯᑌᐅᓐ
ᑭ ᑭᒥ ᓴᑭΔᐁ·Δᓐ

3. ᐱᑕᓗ ᑭ·ᐊᐸᑕᒪᓐ
ᐊᓄᐦ ᑭᓴᑭΔᐁ·Δᓐ
ᑲᑭᓗᐤ ᓂᒪᑎᑎ·Δᐣ
ᐁᐅᓗᓂᓀᑕᒪ·Δᓗᓐ

4. ᑦ·ᐯ ᑭᑭᓴ·ᐊᑎᓯᓐ
ᐁᑲ ᐁᑭᓯ·ᐊΔᑦᓐ
ᐁ·ᑲ ᐃᒃ ᓂ·Δᐅᓇᑌᓐ
ᑲ ᑭ ᐊᓯᑕᒪᕝᓗᓐ

ᑭᑎᒪᑫᓂᒧ·ᐃᓗ ᓂᑲᒧ·ᐃᓗ

28. ᓂᓯᕿᓇᐤ ᐊᐳᓇᓄᐅᕐᓴᑦ

1. ᑭᒪᒪ·ᐃᒪᖏᑎᓀᓗ
ᑌᐯᐳᒋᑫᔭᓗ
ᑭᓴᖏ X ᐁᖏᐱᑌᐳᒪᓱ
ᑭᑎᒪᑫᐳᒥᓗ

2. ᑭᐅᖏ ᑲᓱᐊᒪ·ᐃᓀᓗ
ᑲᒪᒋᑎᑕᒪᓴ,
ᑲᑭᕐ ᐱᒪᑎᓱ·ᐃᓗ
ᑭᒋ ᐅᑎᑕᒪᓴ

3. ᑭᓴᖏ X ᐁᒪᒥᓱᐅᓴ
ᓂᒋ ᓇᑐᑕᒪᓴ
ᐁ ᑭ ᓂᐅᖏᑕᒪᓂᓄᓴ
ᑭᒋ ᐸᖏᐱᓇᒪᓴ

4. ᒐ·ᐯ ᑭ ᐯ·ᑲᑕᑭᓀ
ᐁ·ᐃᐱᒪᒥᑭᐃᓱ
ᐊᑕᐃᓱ ᒪᒋᑎᓂᐅᓴ
ᐁ ·ᐃ ᐅᓄᐳᑕᓴ

5. ᒐ·ᐯ ᑭᒋ ᐅᑭᒪ·ᐃᓀ
ᐃᖏᐱᒥᓴ ᐁ ᐊᐅᓱ;

∇·b ∇LΓΡΓĊ
∇Pᵔ9ᓗᑦᑕᒧᑦ

Pᵔ9ᓗᑦᑕᒧᑦ·Δ› ơbᒧᑦ·Δ›

29. 9b′ ơᵔ›Γᑕᓇº

1. Pᵔ9ᓗᑦ·bᓇ ’ ᓴ
   Ṗᐊᒪơᵔ›·Δᓕ›
   Vȯᓂᒋbᒪ·Δ›,
   bᑕᓴძᑦ·Δ›,
   bᑕᓴძ·ᑦ·Δᓕ›
   ᒪΡ9·bᓗᓴ
   Γơᓂᒋbᒧᒪძᓕ›
   ΡᒪᵔbᐧΔᓂᐧΔ›
2. Pᵔᐱ› ΓΡΓᓇᒧᒪ›
   ΡᒪᵔbᐧΔᓂᐧΔ›
   ᓇᒧᓕ ơbძᵔU
   ᒪΡ9·bᓗᓴ
   ᐃᒪ·∇ᓗΓძᓕ›
   ᐊᑦ ơ>·Δơᵔ
   ơbᓂᑭbᐸ·Δ›
   ᑦძ¯ Pᵔᑦᐱᵔbᐧ

3. ᖁᒋ ᓴ·ᐁᓗᒥᓅᓐ
ᐯᒋ ᐊᑯᑦᑲ·ᐃᓐ
ᒋᐊ·ᑲᓂᑦᑲ·ᐃᓅᓐ
·ᑭᑕ·ᐃᑲᓯᓅᓐ
ᐱᒪᒋᐃᑲᓐ ᐃᑦᐱ
ᐯᑲ·ᖁᒋ’ᑕᓂ
ᐁᑲ ᐯ·ᐊᓴᓯᐃ′
ᒣᒋ ᒪᓂᔪ·ᐃ′

4. ᐯᓯᑭᑲᐸ·ᐃᐃᓐ
’ᑲ ᒋᐸᑭᓯᓇᓐ
ᖁ·ᖁᒋᐃᑯᓯᓂ
ᐯᒋ ᐊᓗᑎᓂᓐ,
ᑭᒋ ᐱᒪᑎᓯ·ᐃᓐ
ᒋᓴᑦ ᖁᒦᓗᓅᓐ
ᒥ·ᐁᓗᒋᖁ·ᐃᓂᕀ
ᒋᐸᑭᑎᓂᓅᓐ

ᓂᓇᑦᑯᒪ·ᐃᓐ ᓂᑲᒪ·ᐃᓐ

30. ᓂᔪᒥᑕᓇᵒ

1. ᓂᑭᓴᒪᓂᔪᑦ
ᑭᓇᓇᑦᑯᒥᑎᓐ

ᓇᒪ ᓂᒋᐱᒧᒪᑎᓂᔪᓐ
ᑭᖏᐱᓐ ᓇᑲᓂᔭᓐ

2. ᑭ·ᐊᔪᓴᓂᔪ·ᐃᓐ
ᓂ·ᐊᔪᖏᑲᒪᓂᐢᑯᓐ
ᒋ·ᐯ ᐢᓴ ᒥᓪᓚᐊᑎ·ᑲᓐ
X ·ᐃᓕᒣᐢᐊᑭᑦ

3. ᒋ·ᐯ ᒥᓪᓚᐊᓂᔪᓐ
ᒥᓪᓚᐢᕿᖏᑕ·ᐃᓴᓐ
ᐃᖏᐱᒥᑦ ᐃᑌᓕᒋ·ᑲᓐ
ᐯ·ᓴᐸᒥᒋᓂ

4. ᑭᓴ ᐅᑭ ᒥᓪᓚ
ᐊᓴ·ᐊᑦ ᐁᓐᓭᓇᓵ,
ᑭᑭ ᒥᓪᓚᐊᑕᒧ·ᐊᑦ
·ᐃᒣ·ᐊᐢ·ᒋᓄ ᑭᓴᖏ

5. ᑭ ·ᐃ ᐯ·ᓴᐸᒥᑦ
ᐢᓴ ᑭᓴ ᓂᒋᑎᑦ
ᐅᓴᖏ ·ᐊᔪᓴᓄ ᓂᙵᐸ·ᐃᓐ
ᐁ ᑭᓴᖏ ᐅᐱᓂᓐ

ᐅᑭᑦᑕᐧᑲᐅᐧᐃᓗ ᑭᓴᑦ

31. ᓂᕐᒥᑕᓇᓂ ᐯᖃᐸᓴᑊ

1. ᐧᐊᐸᑦ ᑲᐱᒪᑭᐃᐧᐁ′
ᑲᑭᑦᑕᐧᑲᐅ′
ᒋᐧᐯ ᑭᓴᑭᐃᐊᓀᓂ
ᑲ ᑲ ᐅᑭ ᓂᐱ′
ᒪᒥᑭᒥᑊ ᑭᓴᑦ
ᑲᓂᐳᑦᑕᒪᓀᖃᑊ;
ᒪᒥᑭᒥᑊ, ᒪᒥᑭᒥᑊ,
ᒪᒥᑭᒥᑊ, ᑭᓴᑦ

2. ᓇᓕᒋᑊ ᐁᒪᒫᐱᓂ′
ᐊᑦᑭ ᓇᒥᐸᐳᓂ
ᐧᐊᐧᐊᐦ ᐁᑲᑭᑦᑕᐱᑦᑲᑊ
ᑭᑕᑦᑭᐸᐳᓂ
ᒪᒥᑭᒥᑊ ᑭᓴᑦ, &c.

3. ᓴᓴᓂ ᓂᑭᓯᑎᐸᐁᓕ
ᓂᑕᒪᓀᑦ ᐅᑎᓕ
ᐁᑭᐃᐧᑌ′ ᓇᒥᑦᐧᑫᐳᓂ,
ᐁᓀᓯ ᐁᓂᐱ′
ᒪᒥᑭᒥᑊ ᑭᓴᑦ, &c.

4. ᐃᒃ ·△< ᐊᐱᓯᓯᓗ
▽ ᑭᒋ ·ᐊᓯᓯ′,
ᑦ·V ᑭ·ᐁᓴᖅᑕᑦ
ᓂᓱ ▽ᐃᓴᑭᐁ′
ᒪᒥᒋᒥᑦ ᒋᓴᒍ, &c.

ᑭᒋ ᒪᓂᑐ ᐃᓴᑭᐁ·▽·△ᓗ

32. ᓂᖏᑐᒥᕐᓂᐤ ᓂᓯᓴᑦ

1. ᑭᐅᑦ ▽·ᒃ ᓂᑕᐃᑦ
ᒪᒥᒋᑦ ᑭᒪᓂᖏᑦ
▽ᖏᐱᒋ ᓴ·▽ᐅᒥᒍ
ᐊᖏᐱᐣ ᐅᑭᐅᓯᐁᒍ

2. ᑭᑭᐸᑭᑎᓭᒪᑦ
ᐅᑭᒋᑯᓯᓴᓭ,.
ᑭᒋᒃ·ᒃᑕᑭᓯ′,
▽ᑭᑎᒪᒐᐅᒥᖏ

3. ᐅ ᓂᑭᓴᒪᓂᖏᑦ
ᑭ·△ᒪᒥᒋᒥᑎᓄ;
ᑭᐅᑦ ᐊᖏᑦ ᓂᑌᐁ
ᑭᒋ ᐃᓴᑭᐁ·▽·△ᐣ

4. ᐃᓐᓂ ᐱᒧᑎᓱᓕᕆᓂ
ᐅᑲᓪᓚ ᑭᓯᔨᑦᒪᓂ
ᖃᐃᓱ ᓄᓂᔨᕆᓂ
ᑭ ᒥᓴ ᔨᔪᖃᐅᐃᓂ

ᐊᑎᓚ ᐅᓇᓀᓐᓂᒧᐃᓂ

33. ᓂᓐᒥᔪᓇᐤ ᓂᓐᓴᓗ

1. ᑲᑲᓀᑎᓱᕆᓂ ᐊᑎᓚ
ᑭᕆᑦ ᓂᑲᒧᓱᔨᓀᐃᓂ,
ᓂᑌᐃᓀᓚ ᐸᑭᑎᓇ
ᑭ ᑭᒋ ᐋᑭᐃᐅ·ᐁ·ᐃᓂ

2. ᓂᐱᒪᒋᐃᐅ·ᐁᒥᓀᐃᓂ
ᐅᑎᓱᓂᑲᓱ·ᐃᓂᓚ
ᓂ·ᐃᐸᓂᔪᕆᒧᓀᐃᓂ
ᒋᐱᒪᒋᐃᐃᑲ·ᐃᐳᓚ

3. ᒥᕎᑎ·ᓇ ᐁᕐᑎᑭ
ᓂᒪᒋᐃᑎ·ᐃᓂᓀᐃᓂ
ᒪᑲ ᒋᔭᑦ X ᑭᓂᓱᑦ
ᓂᑲᐳ·ᓄᐟᕐᒪᓂᓀᐃᓂ

4. ᑭ ·ᐃ ᒪᒥᒋᒥᑎᓀᐃᓂ
ᐁ·ᑲ ᐁᔭ·ᐁᓕᒥᐅ

ᐁᐯᑦᒪᑦ ᑭ′ ᐃ·ᑌ·ᐃᓗ
ᑲ ᑭᖏᓄᐊᒧᓕᔪᐅᑦ

5. ᑭᐸᔪᖅᓭᒥᑎᓀᓗ
ᑭᒋ ᑲᓇ·ᐁᓂᑦᒪᓗ
ᓂᑌᐃᓀᓇ ᐱᓯ·ᐊᑦ
ᑭ ᐯᑭᓯ·ᐃ ᒥᔪᒥᑦ

6. ᒋᔭᖏ X ᐅ·ᐃᓂ·ᐃᓂᑦ
ᑭᒪᒪ·ᐃᒧᖏᑎᓀᓗ ;
ᐱᑦᓱ ·ᐊᔪᖅᓯᓯ·ᐃᓗ
ᐁ·ᑲ ᑲ ᑭᑭᖏᑲᔪᐅᑦ

ᑦ·ᐯ·ᐃᓗ

34. ᓂᖏᒥᑦᓇᐤ ᓴᐅᔭ

1. ᓂᑦ·ᐯᑌᓗ ᓂᑦ·ᐯᑌᓗ
ᐁ·ᐃᐱᒪᒋᐃ′
ᐊᑦ′ᓯ ᒪᐅᓕ·ᐃᖅᓗ
ᐁᐱᓯᖏᓕᒥ′

2. ᑦ·ᐯ ᓂ ᑭ ᒪᐅᓕ·ᐃᓗ ,
ᐁ ᐊᑦ ᐯᑦᒪᓗ
ᐁᑲ ᐁ ᑭ ᑦ·ᐯᑦᒪᓗ
ᐁᓯ ᒥᓂᐃ·ᑌ′

3. ᕿ:ᑲ ᐣᑐᕿ ᓂᒪᒥᓯᓄ
ᕿᕿᐸᑎᓯᓴᓄ
∇·ᐅᑯ ᐱᑯ ᒧᔭᑦ X
ᕿ ᐅᐸᑦᐱᓇᒧᓄ

4. ∇ᑲ ∇·ᐅᑯ ᐯᐊᓴᓗ
ᐅᑕ ᑭᑦᑭᓀᔪ
ᓇᒪ ·ᐊ·ᐊᐧ ᐊᓗᓯᓂᓂᐤ
ᑲᑕ ᑭ ᐸᑦᐱᓇᔭ

5. ᑦ·ᐯ ᒥᑦᑕᐃ ᓅᑯᑦᐤ
ᑭᖅ·ᐊᑎᓯ·ᐃᓄ
ᒥᑦᑕᐃ ·ᐊᐸᑎᐳ·∇ᐤ
ᔭ·∇ᐳᒥ·∇·ᐃᓄ

ᐅ ᑭᒋ ᒪᓂᕐ·ᐃᓄ

35. ᓂᕐᒥᑕᓇᐤ ᓂᓴᓇᓄᖏᑦ

1. ᑲᑭᕿ ᐯᒪᑎᓯᓴᓄ
ᐃᑦᐱᒥᑦ ∇ ᐅᑦᑭᓴᓄ
ᑲ ᒪᒪᑦᑲᑌᐳᑕ·ᑲᑦ
ᑭ ᑭᒋ ᒪᓂᕐ·ᐃ·ᐃᓄ

2. ᑭᒪᒪᑦᑲᑌᐳᒥ·ᑲᑦ
ᑲ ·ᐃᒋᑦᑭ·∇ᒥᑦᑭᑦ

ᑕᑭ ᑭ ᒪᒥᒋᒥ·ᑲᑦ
∇ ᑭᒋ ᒪᓂᔪ·ᐃᓕᔪ

3. ·ᐊ·ᐃᑉ ᑲᑭᓕᑫ ᓂᓕᓴᔪ
ᑭᒋ ᑭ ᐃᒪᑉᑲᑕᒪᑦ
ᐊᓯᑉᑭ ᐊᐳ ᒪᓂᔪᑉ
∇ ᐃᑌᓵᑕᑯᓯᓕᑦ

4. ᐅᑕ ᐊᑉᑭᑦ ᓂᐯᑌᓴᔪ
∇ᐃᑕᒋᒋᒥᑲ·ᐃᓕᔪ
ᒪᑲ ᓂᓕᔪ ᓴᒪ·ᐃᓕ
ᑭ ᑭ ᑭᕐᑫᓵᒥᑎᓴᔪ

5. ᐅ ᑭᑎᐹᕐᑫᓵᓴᔪ
ᐊᒋᓕᫀ ᐯᐹᑎᓯᓕᑦ
∇ᑕᓯᓕᑦ ᒪᒋᓵᓴᔪ
ᑭ ᓴ·∇ᓵᑕᑯᓯᓴ·ᐃᔪ

ᑲᓇᒋᐅ·ᐃᔪ ᐅᒋ

36. ᓂᑐᒥᑕᓇᫀ ᓂᑯ·ᑕᓯᓴᑦ

1. ᐅ ! ᑭᓴᒪᓂᔪ ᑭᑐᕕᔪ
ᒪᒋᐃᑎ·ᐃᓇ
ᒥᑉᑲᒪᓂ ᓂᑌᐃᓇ
·ᐊᓕ·ᐃ·∇ᐱᓇ

2. ᐁᑎ ·Δ ·ᐊᓂᓯᓀᑭ
·Δᑕᒪ·Δᓀᓗ ’ᓴ
ᐊᑎ ᐊᐳᑐᑕΔᓀᓗ
ᒣ·ᐊᓯᑦ ᒣᑦbᓀᐤ

3. ᓂᓯbᒪ·Δᓀᓗ ᑭᓴᑦ
ᑭ ·ΔᑭΔᑐᐅᑦ
ᑭ ᐊᑎ ᐃᖏΔᑐᐅᑦ
Δᑦᐱᒥᑦ ᓀᑕᒪᑦ

4. ᖏᐅᑦ ᓄᓯbᒪ·Δᓀᓗ
ᑭ ᐃᖏΔᑐᐅᑦ
ᓀᑦᐱᑭ ᒪb ᒥᑐᓂ
ᑭ ᒥ·ᐁᐳᑐᐅᑦ

5. ᖏᑌᐳᑯᓯᓯ·Δᓂᑦ
ᓂ b ᐅᐱᖏᓀᓗ
ᒥᑐᓂ ᑕᐯᖏᓯᐅᑦ
ᑲᐃᓐ ᐅᑕ ᐊᒋᑲᑦ

ᐁ ᓂᐱ′ ᐊ·ᐁᓀ b ᒥᓄ·ᑕᑦ

37. ᓂᑐᑎᑕᓀᐤ ᑌᐸᑯᓗᓴᐤ

1. ᐅ ! ᐁ·b ᑭᐸᐳbᒥᑯᓵ ᑭ′ Δᑐᑕᓗᒪ ᓀᒪ ᖏ ·Δ ᖏ·ᐊᓴᓂᒥᑎᓀᓗ

ᐊᓗᑕ ᐁ ᑭ ᐃᑐᑌ᾽ ᐯᒪᒋᐃ·ᐁ᾽
ᑲ ᐅᒋ ᒥ·ᓂᓂᑕᒪᓗ ᐁ ᓂᐱᕆᓗ

2. ᐅ ! ᐁ·ᑲ ᒋᐸᐣᑲᒥᑯᓵ ᑭ᾽ ᐃᑐᑕ
ᓀᒪ·ᐃᓀ ᑭᑭ ·ᐊᐸᒥᑎᓂᓗ
ᐊᕆᓄ ᒪᑲ ᑭ ·ᐁᐅᑭ·ᑫᓂᑯᓗ
ᒋᕆᑢ ᐅ ᕆ·ᐁᐣᒋᑫ·ᐃ ᐅᑢᐱᑐᓗ

3. ᐅ ! ᐁ·ᑲ ᒋᐸᐣᑲᒥᑯᓵ ᑭ᾽ ᐃᑐᑕ
ᒪᑢᑯ᷄ ᑭ·ᓂᑢ ᑭ ·ᐃᕆᑫᐣᑌᑕᓄ
ᐊᓂ᷄ ᒪᑲ ·ᐃᒋ ᑕᓯᑫᒪ·ᐊᓵ
ᐁᓗᑲᓵ ᒧᕆᓵ ᑲ ᒥᓪ ᓂᑲᒧᒋᒋ

4. ᐅ ! ᐁ·ᑲ ᒋᐸᐣᑲᒥᑯᓵ ᑭ᾽ ᐃᑐᑫ
ᓀᒪ ᑭ ·ᐃ ᑭ·ᐊᕆᓂᒥᑎᓀᓗ
ᐁ ᑭ ᐅᑎᓂᑢᓵ ᐊᓀ ᐯᒪᒋᐃ·ᐁ᾽
ᑭᒋ ᐃᑕ·ᐊ᾽ ᐅ᾽ ᐅᑭᒪ·ᐃ·ᐃᓂᓵ

ᐁ ᒪᒥᒋᒥᓵ ᒋᕆᑢ

38. ᓂᑫᑎᑕᓀᐤ ᐊᐸᓀᓂᐅᕆᓵ

1. ᒥ·ᓂᓂᑕ·ᑲᑉ
ᐁ ᐃᒥᒋᒪᓵ **X**
ᐅᑕ ᐊᑫᑭᓵ ᐁ ᐃᑕᕆᓵ
ᐊ·ᐊᓯᒣ ᒪᑲ

ϥ Γ·ᓄσᑕ·bᓵ
Δ^ΛΓᓵ ᑭᒥ ᓇᓈ^ძᒪᓵ

ᑭ^Uσᑦძᓯ° ᒥᔭ^
39. ϥb′ ᓄΓᑕᓇ°

1. ·Δᒥ σbᒧİᒪᑦᓇ
   ᐊσᑭ ∇ɔᒃᓇᓵ
   b ·ᐊ^bḃ<·Δ^ᑕᑭᓵ
   ᒥᔭ^ ᐅ′ ᐊΛ·Δᐣ

2. ᑭ^Uᐳᑕძᓯ° ᐊᓇ
   b σΛ′, U·V·ᐊᓵ;
   ᑭ^Uᐳᑕძᓯ° σ^ᑕ
   ᑭ ·ᐊ·ΔUᓈᓇ°

3. σ ᑭ σ>^ᑕᒪძᓇᓕ
   ᒥ ᐅΛσᓴΓ′
   ᑭᒥ Δᑦᓴᓵ Δ^ΛΓᓵ
   ᐅᑭᒪ·Δ·Δσᓵ

4. Γᓯ·∇ ᑭᒥᑭᓯძᓵ
   σ^ᑕ ᐅᑕ ᐊ^ᑭᓵ,
   σbᒧᑕᑦ ᒥᔭ^ ᐊᓇ
   b ΛİᒪΔ·∇′

5. ᐅ! ᑦᐱᓵᓂᐢ ᐅᐱᓇᒧᑦ
ᑭ′ Δ·Ս·Δσ·ᐊº
ᒋ ᐃᒥᒋᒣᑦ ᑲ ᐊᐱ′
ᑭᒋ ᐊᐱ·Δσᑦ

ᑭᒋ ᒪᓯᓇΔᑲ
40. ᓂᒥᑕᓇº

1. ᐅ! ·▽ᐅᑕ·Δᒥᓂᔭᓐ
ᓴ·▽ᔨᒋᑫ·Δᓐ
ᑕᓅᑦᐱᒋ ᒥᔦᓇ·ᑲᑦ
ᑭ ᒪᓯᓇΔᑲ

2. ᐅᑕ ᑫᑏᒪᑭᓯᒋᑦ
ᒧᓴᑦ ᑭ ᒥᑦᑲ·ᒪᑦ
·▽ᓄᑎᓯ·Δᓇ ▽ᑲ
ᓂᓯ·ᐊᓭᑕᑭ

3. ᐅᑕ ᑲ ᐱᒪᒋΔ·▽′
ᐊᔭᒥº, ᑲ ᐅᒋ
ᑭᑦᑫᔨᑕᒪᓐ ᑲᑭᑫ
ᒋ ᐱᒪᑎᓯᔭᓐ

4. ᐅ! ᑫᑦᑭᓄᐊᒪᑫᔭᓐ,
ᒧᓴᑦ ᐯᒋ ᓇᓯᓐ

ᑭ ᒥᓪ ᒪᓯᓇᐃᑲᓗ
ᓂᓯᔪᑕᒧᐃᓗ

ᒥᓪ ᐊᑎᒧ·ᐃᓗ

41. ᓗᒥᑕᓇᐤ ᐯᖃᐅᔪᑦ

1. ·ᐊ ! ᒥᓪᓯᓯᑎᑦ
ᑕ ᑲ ·ᐃᑕᑭᑦ
ᐱᒻᒪᐃ·ᐁ·ᐃᓂᓂᐤ
ᐅᑕ ᒪᑎ ᐊᖏᑭᑦ

2. ᒥᓪᑕᑯᓯ·ᐊᓵ
ᐁ ·ᐃᑕᒋᒪᑫᑎᓵ
ᔭᐤᐊᓗ ! ᑲᓇ·ᐊᐸᑦ ᑎᔭᖏ,
ᐅᑕ ᑌᐯᐹᑕᓵ

3. ᒥ·ᓗᓕᑕ·ᑲ·ᓇ
ᑭᑕ·ᐊᑲᓇ·ᐊ
ᐁ ᓇᑐᑕᒧᒪᑲᑭ
ᐱᒻᒪᐃ·ᐁ·ᐃᓗ

4. ᔭ·ᐁᓕᑕ·ᑲ·ᓇ
ᑭᖏᑭᔪᓇ·ᐊ
ᐁ ·ᐊᐸᑕᒧᒪᑲᑭ
ᒣ·ᓇᔭᑦ ·ᐊᖏᑌ·ᐃᓗ

5. ᑭᓴᒃ, ·ᐊᐸᑎᓂᓪ
ᐊᒃᑭᓪ ᑲ ᐃᑦᑭᓪ
ᐁ ᑭ ᓂᐳᒃᑕᒪ·ᐊᑭᓪ
ᑭ ᐱᐃᒪᑭᐊᑭᓪ

ᑭᑎ ᒪᓯᓇᐃᑲᔨ

42. ᓴᒥᑕᓇᐤ ᓂᓯᓴᑊ

1. ᑦ·ᐯ ᐃᓴ ᒥ·ᓇᓯ·ᓇ
ᑭ′ ᐊᔭᒥ·ᐃᓇ
ᑲᓇᑕ ᑯᓇᓯ·ᐁ·ᐃᔨ
ᑫᑫᒃᑭᒥᑯᔭᓪ

2. ᓇᒪ ᓂ ᑭᒃᑫᐳᑌᓇᔨ
ᑕ·ᑕᐤ ᒣᒋᑎᔭᓪ,
ᐅ! ᐃᑲᑌᓇᒪ·ᐃᓇᔨ
ᑭᒧᒾ ᒪᒋᑎ·ᐃᔨ

3. ᐁᑲ ᑭ ᒪ·ᓴᓂᒥᑕᓪ
ᑲᓇ·ᐁᐳᒥᓇᔨ
ᒧᐸᓪ ᑭᑎ ᓇᑭᒃᑕᒪᔪ
ᑫ·ᑲᔨ ᐁ ᐃᓇᑕᓪ

4. ᐁᑯᓯ ᑕ ᑭᓯᑲᐤ
ᑫ ᓇᓀᒃᑯᒥᑕᔪ

ᑭ ᑲᓇ·ᐁᐳᒥ·ᐁ·ᐃᓗ
ᓂᐟ ᐊᑎᐯᐳᒍᓇ

ᐊ·ᐊᓯᓴᑦ ᐅᑭ

43. ᓄᒥᑕᓇᓂ ᓂᕐᔪᑦ

1. ᐊᖅᒥᐁ·ᐃᑲᒥᔪᑦ
ᐁ ᐱᔪᑫᐟ ᑭᓴᑎ
ᓀᑎᐱᒃ ᑭ ᐃᒥᑎᒥᔪ
ᒥᑫᐟ ᐊ·ᐊᓯᓴ
2. ᐊᓛᒥᐁᑦ ·ᐊᑎᑲᐃᑲᓗ
ᓀᑎᐱᒃ ᑭ ᑭᑎ·ᐁᐤ
ᐁ ᑭ ᓂᑲᒍᑎᑕ·ᐊᑭᑦ
ᑭᑭᐅᑭᒪ·ᐊ
3. ᑦ·ᐯ ᑭ ᑭ ᒥᔪ·ᐁᓂᑌᓗ
ᐁ ᑭ ᐯᑕ·ᐅᑭᑦ
ᑭ ᑭᑭ ᐢᓯᓂᑲᓯ·ᐃᓗ
ᐁ ᐊᓂᒍᑕᑭᑦ
4. ᐅᔪ ᐅᑕ ᑲ ᐃᑦᑭᑦ
·ᐃᑭᐃᑦ ᑦᐱᑎᔪᒃ
ᑭ ᑭᑎᑭᓄᐊᒪᕿ·ᐃᓗ
ᑭᑭ ᓱᑭᑕᑭᑦ

ᑭᒋ ᒪᓯᓪᐃᑲᒃ

44. ᓴᒥᕆᓪᓂ ᓴᐅᕐᓵᑊ

1. ᖃᐧᑲᔪ ᖃ ᐅᒋ ᐊᓂᑭ
ᐁᐯᓯᓯᓯᒋᑊ
ᑲᓪᐧᐁᐟᒥᑎᓯᒋᑊ
ᐁ ᐧᐃ ᑦᐐᕆᑭᑊ

2. ᑭ ᒥᓪ ᐊᑦᐳᒥᐧᐃᓂᑊ
ᒪᓯᓪᐃᑲᑎᐤ
ᑭ ᑲᓪᒋ ᑲᖏᐧᖃᐧᐃᔪ
ᖃ ᐧᐃᑎᐃᔨᒋᑊ

3. ᐅ ! ᐃᓯᓪᐧᑲᔪ ᑦᐱᖏᔨ
ᖁᑲᓯᖃᑊ ᐱᓯᑦ
ᓂᖏᑕ ᓂ ᐧᐊᖏᑌᓪᒪᔨᑲᔪ
ᐁ ᑎᐱᖏᑭᓯᐳᔪ

4. ᑦᐧᐯ ᓂᐧᐸᑦᑲᐃᔨᔪ
ᓂᑎᔨᔪ ᒥᖃᒪ
ᒥ ᐸᐧᑲᑕᒪᔪ ᒥᓯᐧᐁ
ᓂᒪᑭᐧᑕᐧᐃᓪᓪ

5. ᓂᑊ ᐅᑭᒪᖏ ! ᓂᐸᑭᑕᔪ
ᑭ ᑲᖏᐧᖃᐧᐃᓪᓪ
ᐊᐧᐊᓯᑌ ᐃᖏᐱᐟ ᐊᖏᑭ
ᐧᐁᐅᑎᓯᐧᐃᓪᓪ

ᔪ·ᐊᑊ ᐅᑭ

45. ᓄᒥᕈᓐᓂ ᓂᖅᓇᓄᕐᑎᑦ

1. ᑭᑭᒪᓂᑐ ! ᐸᓯᑯ,
   ᑭᑎᒪᕋᐳᒥ ᔪ·ᐊᑊ,
   ᓇᕈᒥᑊ ᑭᑭ ᑭ·ᐁᑭᑊ
   ᑎᐱᓇ·ᐁ ᐅᐟ ᐊᑖᑭ·ᐊᑊ

2. ᒥᑐᓂ ᐊᖏᓇᒪ·ᐃᑊ
   ᐅ ᒪᑭ·ᑕ·ᐃᓂ·ᐊ·ᐊ ;
   ᐅ ! ᐃᖃᐁᐃᐸ ᐅ ᒪᓂᑐᑦ
   ᒥᓂᑊ ᑭ ᐲᑭᐃ·ᐁ·ᐃᓗ

3. ᕈᓂ ᐃᓂᑯ ᕋᐳᐱᒃ
   ᓴᖃᐱᒃ ᕋ ᑭᓯ·ᐊᓯᓕᓐ
   ᐅ ! ᓇᒪ ᓴ ·ᐃᖃᑲᐟ ᒥᓇ
   ᑭ ᑲ ᐅᑐᑌᒥᒪ·ᐊᑊ?

4. ᒥᓂᑊ ᑲᓇᒋ ᐊᑭᑊ ᑲ
   ᑭᖃᕋᐳᒍᐃᑊ ᑎᕆᖃ
   ᓯᑭᓄᐃᑊ ᐅᑌᐃ·ᐊ
   ᐅ ᒥᓇ ᐅᑯᓯᓯᒥᑊ

ᒪᓗᑌ·ᐃᓂᓂ·ᐊᑦ

46. ᓴᒥᑕᓐᓄᐤ ᓂᑯ·ᑕᓯᓴᑦ

1. ᐅᓴ ᐃ·ᑌᒪᒃᑦ ᐅᒪ
ᑭᒋ ᒧᑉᒃ·ᐊᓯ·ᐃᓗ ?
ᒥᖏ ᐃᓗᑌ·ᐊᑦ ᑌ·ᐯ·ᐊᑦ,
ᑭᓂᐱ ·ᐃᒋᐃᓐᓗ

2. ᐅᑕᔭᒥ ’·ᐊᑦ ! ᐯᑕᑯᑦ
ᐁ ᐸᑭᔪᑦ X ᐅᒋ
ᐅ ! ᑭᓂᐱ ·ᐃᒋᐃᑯᑦ
ᐁ ᐁᒧᔪᖅ ᓂᐱᒋᑦ

ᒪᓗᑌ·ᐃᓂᓂ·ᐊᑦ

47. ᓴᒥᑕᓐᓄᐤ ᑌ<ᑯ>ᓴᑦ

1. ᐃᑕ ᐁ ·ᐊᓂᑎᐱᖏᒃᑦ
ᐅ! ᓂᓗ ᐊᐃᑦ, ᐃᑕᐱ
ᐁᑯᑕ ᐁᖏ·ᒃ ᕿ ᓄ·ᒃᑦ
ᒪᓂᑐ·ᐃ ᑭᓯᒃᓄ
ᒥᔪ ᒋᓴᖏ
·ᐃᐸᒉ ᒃᑕ ·ᐃ ᐃᑭᓗ

2. ᐁᑯᓯ ᓂᕐᕃᐅ, ᐃᓂᓂᐤ
ᑕ ᑲ ᑎᐱᖏᑭᓯᓴ
X ᐅ ᐱᒧᒋᐃᐧᐁᐧᐃᓗ
ᐁᖏᐧᑲ ᑲᑕ ᐧᐊᕐᑕᖅ
ᒥᓴ ᒋᓵᖏ
ᐧᐃᕐᒃ ᑲᑕ ᐧᐃ ᐃᑭᓗ

3. ᐅᑊ ᒋᓵᖏ ᒥᓯᐧᐁ ᐅᑯ
ᐃᓯᑎᓵᐊᒪᐧᐃᓵ
ᑫ ᑭᖏᓄᐊᒧᑯᓵ
ᑭ ᒥᓴ ᐊᒋᒍᐧᐃᓗ;
ᒥᓴ ᒋᓵᖏ
ᐧᐃᕐᒃ ᑲᑕ ᐧᐃ ᐃᑭᓗ

4. ᒥᓴ ᐊᒋᒍᐧᐃᓗ ᑲᑕ
ᓵᑯᒋᐃᐧᐁᒪᑲᓗ
ᕿᑎᒧᒪ ᑎᐯᐅᒋᑫᓵ
ᒋᓵᖏ ᐁᖏᐱᑲᓵ ᐊᖏᑭᓵ;
ᒥᓴ ᒋᓵᖏ
ᐧᐃᕐᒃ ᑲᑕ ᐧᐃ ᐃᑭᓗ

———

▽ ᒥ·ᓂᐳᑦᑦ·ᑲᐅ ᐊᐳᒥᐊ·ᐃᓗ

48. ᓂᒥᑕᓄᑉ ᐊᐳᓇᓂᐅᕐᓗᑦ

1. ᐊᐳᒥᐁ·ᐃᓗ ᐱᔪ
ᑭ ᑭ ᒥᓂᔪᓇᓄᑉ
ᑭᒋ ᒥ·ᓂᓂᑕᒪᑦ
ᐁᑉ·ᑲ ᐱᒪᑎᓯᐅᑦ

2. ᐊᐳᒥᐁ·ᐃᓗ ᐱᔪ
ᑭ . ᑲ ᒥᓂᔪᓇᓄᑉ
ᑦ·ᐯ ᒥ·ᓂᓂᒧ·ᐃᓗ
ᓇᑲᑕᒪᕐᓀ ᐊᑉᑭ

3. ᑭ ᓂᐱᐳᕐᓀ ᒪᑲ
ᒧᒋᕐᓂᑕᒧ·ᐃᓗ
ᑭ ᑲ ᒥᓂᔪᓇᓄᑉ
ᑲᑭᕐᓀ ᒋ ᐊᐅᐳᑦ

4. ᑭ ᑲ ·ᐃ ᐊᐳ·ᐊᓇᓄᑉ
ᒋ ᐅᓗᑌᒥᒥᑕ
ᒋᓴᑉ, ᐁᔪ ᑲᑭᕐᓀ
ᕐ ᒧᒋᕐᐸᑕᒪᑦ

ᓇᑎᑦ ᑭᓴᑦ

49. ᖃᒃ ᓂᔨᓇᓄᒥᑕᓇᓂ

1. ᐅ! ᓇᑎᑦ ᐯᒪᑭᐃ·ᐁ′
ᑭᔭ·ᐊᓂ ᒣᓂᓯᔪᑦ
ᑭ ·ᐃ ·ᐁᓄᑭ ᐃᑯ·ᐊᓂ
ᒋ·ᐯ ᓂᑦᑕ ᑲᖏᑕᓂ
ᑲᑕ ᑐᑦᖅ
ᐁᑲ·ᐃᓇ ᑯᑦᒋᑭᑦ

2. ᑭᓂᐱ, ᐯᑭ ᐃᑐᑌᑦ
ᑲ ᑭᑎᒪᑭᓯᔪᑦ,
ᐊᓇ ᑲᑎᐯᐅᑭᖃ′
ᑭᑭ ᓴ·ᐁᐅᒥᑕᑦ
ᑭᑭᒪᓐᑐ
ᖃ ᐅᑭ ᐃᒥᑭᒣᑦ

3. ᐅ ! ᐁᑲ ᐃᑌᐅᑕᒍᑦ
ᓇᒪ ᓂ ᑲ ᓴᑭᐃ′;
ᑭ ᑲ ᐊᔪᓇᒪᑯ·ᐊᓂ
ᑭ ᑲ ᓴᑭᐃᑯ·ᐊᓂ
ᑭ ᕆᑯᓯᓐ
ᑭᑭ ᒥᔨᑐᒋᑦ

4. ᐅ ! ·ᐊᐸᒥᐧ ᐁ ᐊ·ᐯᓯ″
ᓂᑦ·ᐃᑭᒋᑲᓂᐧ ;
ᐯᑦ·ᒪᐧ ᐁ ᐃᓯ ᑌ·ᐯ″
ᓀᕐ ᐁᒧᐸᑦ ᓂᐱ″ ;
ᓂ ᑭ ᑐᑌᓗ
ᐅ ! ᑭᓂᐱ, ᐧ·ᐯᐧᐧ

ᓀᒪ ᓂ ᑲ ᓄᐯ·ᐃᓯᓐ ᒥᔭᑦ ᐅᒥ

50.ᓂᓴᓀᓇᒥᑕᓀᐤ

1. ᓀᒪ ᓂ ᑲ ᓄᐯ·ᐃᓯᓗ
ᑭᒥ ᐊᓂᒧᒪᐧ
ᓂᐟᑕ ᑭᒥ ᑭᑌᐅᒪᐧ
ᓂ ᑭᒥᐅᑭᒪᑦ

2. ᒥᔭᑦ, ᓂ ᑭᒥ ᐅᑭᒪᑦ
ᑭ ᑭᐟᑫᐅᒥᑎᓐ
ᑭ′ ᐃᓯᓂᑲᓯ·ᐃᓂᐧ
ᓂ ᑲ ᐊᐟᐯᐅᒧᓗ

3. ᓵᐟᐱᐦ ᒪᐟᑲ·ᐃᓯᒪᑲᓗ
ᐅ ᑭᒥ ᐃ·ᑌ·ᐃᓗ,
ᓂᑌᐃ ᑲᓀ·ᐁᐅᑕᑦ
ᐅ ᓀᓂᒥ·ᐃᓂᐧ

4. ᐃᓕᐱ ᒪᑲ ᓯ·ᐯᑌᓴᓗ
ᐅᑕ ᐊᓕᑭᓵ ᐅᒋ
ᐅᑕ·ᐃᓴ ᐅᒋᒋᓂᓵ
ᓂ ᑲ ᐸᑭᑎᓂᓵ

ᒋᓴᓕ ᐅ ·ᑲᓴᓕᑭᑕᑎᓯ·ᐃᓗ

51. ᓂᓴᓐᓇᒥᑕᓐᓇᓄ ᐯᓴᑯᓴᑊ

1. ᓐᒪ ᓂ ᐃᒧᒪᑕᑯᒧᓗ
ᓂ ᒥᔨ·ᑕ·ᐃᓐᓐ ᐅᒋ
ᓂ′ ᐊᓕᐯᐟᒧᑌᓗ ᒪᑲ
ᑲ ᕐᑕᒪ·ᐃ′ ᒋᓴᓕ X

2. ·∇ᓕᑲᒃ ᓂ′ ᐃᑌᐟᑌᑕᓄ
ᓂ ·ᑲᓴᓕᑯᐱᐃᒪᑎᓯᓗ
ᐃᓕᐱᒥᓵ ᓂ ᑲ ᐃᑐᕐ,
∇ ᒥᔨ ᐱᐃᒪᑎᓯᓴᓗ

3. ᐊᓴᓄ ᓂ ᑭ ᕿᑭ·ᑲᓂᓗ
ᐅᒪ ᐃᑌᐟᒋᕿ·ᐃᓗ,
ᓂ ᓕᓕᓕᕿᓗ ᒪᑲ ᒋᓴᓕ
ᐅ ·ᑲᓴᓕᑭᑕᑎᓯ·ᐃᓗ

4. ᐃᒋᐱ ᐅᒪ ·ᐃᓴᑕᒧᓕᓗ
ᓴᒪ ᓂ ᑲ ᓄᐯ·ᐃᓯᓗ
ᑭᒋ ᐅᑎᒋᑲ·ᐃᒋᑲ·ᐊᔪ
ᐯᒋ ᐅᓴᓯ·ᐊᓯᑌ

ᐱᒥᐸᓂᐤ ᓂ ᐱᒧᑎᓯ·ᐃᓗ

52. ᓂᔭᓴᓄᒥᑕᓴᐤ ᓂᓯᔪᑦ

1. ᐱᒥᐸᓂᐤ ᓂ ᐱᒧᑎᓯ·ᐃᓗ
ᓴᒪ·ᐃᔭ ᓂ ᑭ ᑭᐱᒋᑕ
ᔨᒋᔨ ᓂ᙮ ᐊᑲᑦ, ᑎᐸᒋᒧ
ᐃᒋᐱᒋ ᔪ·ᐁᐅᒋᕿ᙮ ᒋᔪᒋ

2. ᐱᒥᐸᓂᐤ ᓂ ᐱᒧᑎᓯ·ᐃᓗ
ᓂ ᑲ ᐊᒋᐯᐅᒧᑕ·ᐊᐤ ᒪᑲ
ᐊᓴ ᐁᑲ ᕿ·ᕿᒋᑭᓴᔨᓯ᙮
ᕿ ᐅᒋ ᒧᔪᑦ ᒥ·ᓄᓂᑕᒪᓗ

3. ᐱᒥᐸᓂᐤ ᓂ ᐱᒧᑎᓯ·ᐃᓗ
ᐱᒥᒋ·ᐅᓗ ᔪ·ᐁᐅᒋᕿ·ᐃᓗ
ᐸᑎᒪ ᕿ ·ᐊᐸᑎᐅᔨᔭᓗ
ᔪ·ᐁᐅᒋᕿ·ᐃ ᑭᒋᑲᒥ

4. ᐱᒥᐸᓂᐤ ᓂ ᐱᐃᑎᓯᐧᐣ,
ᑲᐅᓗᓂᑕ ᐃᒃ ᓂᐟ ᐊᑦᑦ
ᐸᑎᒪ ᓇᑲᑕᒪᓱ ᐊᐢᑭ
ᑭ ᑲ ᐧᐃᒋ ᑕᓯᖏᒪᐤ ᒋᓴᐢ

ᑭ ᐧᐁᐢᑕᐧᐊᑕᐤ ᒪᓂᑐ

53. ᓂᐅᓇᓄᒥᑕᓇᐤ ᓂᐢᑐᓴᑊ

1. ᑭᐧᐁᐢᑕᐧᐊᑕᐤ ᒪᓂᑐ
ᑭᑌᐃᓰᑊ ᐅᒋ
ᑭ ᒃ ᐊᔪᓇᒪᑯᓇᐤ
ᐁ ᑭ ᓴᐧᐊᑎᓯᐟ

2. ᑭᐢᐱᓄ ᓰᐢᐱᐨ ᑯᒋᑕᐅᑊ
ᑭᒋ ᑭᐢᖃᐅᒪᑊ
ᑭ ᒃ ᓄᑯᓯᐢᑕᑯᓂᐤ
ᑭᒋ ᐧᐃᒋᐃᑕᑊ

3. ᑕᐱᐢᑯᐨ ᐁ ᒐᒃᓯᖃᐟ
ᐱᓯᑦ ᐁ ᑭᓯᒃᑊ
ᒃ ᐅᒋ ᓂᑕᐧᐃᑭᑭ
ᒥᓯᐧᐁ ᖁᐧᒃᓇ

4. ᐁᑯ ᑦᐱᓵᑯᓗ ᒪᓂᓐ
ᑲᑦ ᒐᑲᓯᑫᓄ
ᓵᓵᐱ ᑭ ᐧᐊᓵᑌᓀᒪᑦ
ᐁ ᑎᐱᓵᑭᓯᓴᑦ

ᒪᒥᒋᒥᐧᐁᐧᐃᓐ

54. ᓂᓴᓀᓄᒥᑕᓀ ᓄᐅᓴᑦ

1. ᑦᐧᐯ ᒥᐧᓄᓂᓂᐧᑲᓐ
ᑭᒋ ᓂᑲᒧᓵᑦᐧᐊᓵ
ᑭ ᑭᒋᐅᑭᒪᒥᓀᓄ
ᒧᓴᑦ ᓂᓵᑦ ᒥᓯᐧᐁ
ᐃᑦ ᐁ ᑕᓯᑫᓴᓵ
ᒋ ᐧᐊᐸᑎᓕᐧᐁᓴᓵ
ᐁᵓᐱᒋ ᑭᵓᑌᓕᒪᓵ
ᐊᓀ ᑲ ᐅᓯᐃᑕᓵ

2. ᐁᑯ ᐅᑕᓴᒥᑊᐊᓵ
ᓂᵓᑦ ᐅ! ᐁᓗᓂᓐᓵ
ᑦᐱᓵᑯᓗ ᐃᒪᒥᒥᓵ
ᐊᓀ ᑌᐯᓕᒥᑕᓵ;
ᓯᑲ ᐊᓂᓧᑦᒪᓵ
ᐅᐟ ᐃᓯᓂᑲᓯᐧᐃᓐ

ᑭᒋ ᑭᓗᑕᒋᐦᑲᓴ
ᐅᐸ ᒥᓯ·ᐁᓗᑲᒥᓴ

3. ᑭ ᓇᓵᓗᑯᒥᑎᓇᔪ
·ᐁᐅᒋᐦᐃᒪ·ᐃᓘᔭ,
ᐁᑯ ᓇᔪᐦᐃᓇᔪ
·ᐁᑯᓯᓯᒪ·ᐃᓘᔭ;
ᑭ ᑭᓗᑕᒋᑯᓯᔪ,
ᓵᓗᐱᒻ ᑭ ᓯᑲᑎᓯᔪ;
ᐃᓗᐱᒥᓴ ᓂᓪᐸ ᐊᓗᑭᓴ
ᑭ ᐃᒪᒥᒥᑲᐦᐃᔪ

ᒪᒥᒥᒥᓴ ᑭᒥᒪᓂᔪ

55. ᓂᔭᓇᓱᒥᐸᓇᐤ ᓂᔭᓇᓱᓄᓴᑊ

1. ᑲ ᐊᔪᓗᑲᐦᐁᓴ ᑭᒥᒪᓂᔪ,
ᐊᓂᒧᒥᓴ ᑭᐟ ᐅᑭᐃᒥᐦᐊᐤ,
ᑲ ᑌᐯᓵᒥᑫᐟ ᒥᓯᐦᐁᓗᑲᒥᓴ
ᓂᓪᐸ ᐃᓗᐱᒻ ᐅᑭᒪᐦᐃᐦᐃᓂᓴ

2. ᑭᒥᒥᓂᔪ ᐦᐃ ᐱᐃᒥᐁᐤ
ᒥᓯᐦᐁ ᐁᓗᐯᓵᒧᔪᑯᐟ;

△σძ᙮ ϧᑕ ·△ σϧᒧᖏᑦძ
ᐊσ△ ∪<ᐊᒪᕐᑕᒪ·ᐊ′

3. ▷! ∇ძᓯ ᒥᓯ·∇ ∇ɔᓚᓇ᙮
ϧᑕ ᑭᖏ∪ᓫᒣ·ᐊ′ ᑭᓴᓴ,
ϧ ᓄ>ᖏᑕᒪ′, ᑭ ▷Λσ′
ᑭᒥᑭᓯძ᙮ ▷ᑭᒪ·△·△σ᙮

4. ᒪᒥᑎᒪᑕ· ·ϧᓗᖏ᙮ ɔᑕᑐ
ᓀᓵᖏძᒪᑐ, ᑎᐸᑎᒪᑐ
ᐊᓀ ᒪ·ᐊᒣ ϧᑭᖏ∪ᓫᑕძᓯ′
ϧ ·ᐊ<ᑎσ·∇′ ∇ ᓴᑭ△ᑕ᙮

ᒪᒥᑎᒥ·∇·△ɔ ᓴ·∇ᓫᑭᑫ·△ᓀ ▷ᑎ

56. σᓗᓀᓄᒥᑕᓀ σძ·ᑕᓯᓴᑊ

1. ᑭ ᓴ·∇ᓫᑭᑫ·△ᓀ
σ ᑭᑎᒪσᑐᑦ
σ ϧ ᒧᒥᑐᓂᓫᑌɔ
ᑕ·ᑕ∘ ∇ ᑭᓯϧ

2. ⊥ᓴ᙮ ᑭ ϧᓀ·∇ᓫᒥᑐ
∇ σ<ᓕɔ, ᒥᓇ

ᒍᓴᓗ ᑭ ·▽ᐅᑭ·٩ᓂᓄ
ᐃᓕᐱ ᑯᑯᓯᓴᓄ

3. ᒍᓴᓗ ᐃᓕᑯ ᑭᓯᑲᑭ
ᑭ ᓯᑐᓂᓄ ▽ᑲ
ᒪᑭᐱᒧᒪᓯ·ᐃᓂᓵ
ᑭᑭ ᐸᑭᓯᓇᓄ

4. ▽ ᒥᓪ ᐱᒧᒪᓯᐅᓄ
ᓂᓕ ᐊᑯᓯᓴᓄ
ᑭ ᓴ·▽ᓕᒥᑫ·ᐃᓇ
ᓂᓯᑭᓄᐃᑯᓄ

5. ᐊᑦ ▽ᑲ ▽ ᐊᔭᐅᓄ
·▽ᓇᑎᓯ·ᐃᓇ
ᑭ ᑲ ᐊᓕᒥᐃᒧᑎᓄ
ᒥ ᐱᒧᒥᐃᒪᐅᓄ

ᑭᒥᒪᓂᑐ ᐅ ᓴ·▽ᓕᒥᑫ·ᐃᓇ

57. ᓂᐅᓇᓇᒥᑎᓇᓄ ᑌᐸᑯᐳᓴᐩ

1. ᓇᓕᑯᒧᒪᑎᓄ ᒪᓂᑐ
ᓇᓕᐱᐧ ٩ᓴ·ᐊᑎᓯᐟ
ᐅ ᓴ·▽ᓕᒥᑫ·ᐃᑐ
ᑲᑭ٩ ▽ ᐊᔭᓂᐩ

2. ᐅ ᓯᑲᑎᓯ·ᐃᓂᓵ
ᐊᐢᑭᓂᐤ ᑭ ᐅᓯᑕᐤ,
ᐅ ᓴ·ᐁᐳᒋᑫ·ᐃᔨ
ᑲᑭᑫ ᐁ ᐊᐅᓂᓵ

3. ·ᐃᓇ ᐅᑭᐢᑕᒪ·ᐁᐤ
ᑲ ᐱᒧᑎᓯᓂᒥ,
ᐅ ᓴ·ᐁᐳᒋᑫ·ᐃᔨ
ᑲᑭᑫ ᐁ ᐊᐅᓂᓵ

4. ᐞᐢᐱᐨ ᒥᓪᔨᑕ·ᐁᐤ
ᐅᐟ ᐃᓂᓂᒪ ᒧᐸᓵ
ᐅ ᓴ·ᐁᐳᒋᑫ·ᐃᔨ
ᑲᑭᑫ ᐁ ᐊᐅᓂᓵ

5. ᑭ ᓴ·ᐁᐳᒥᑯᓇᐤ
ᐁ ᑭᑎᒪᑭᓯᐅᓵ
ᐅ ᓴ·ᐁᐳᒋᑫ·ᐃᔨ
ᑲᑭᑫ ᐁ ᐊᐅᓂᓵ

6. ᐞᐢᑯᒪᑕᐤ ᒪᓂᑐ
ᐞᐢᐱᐨ ᖃᓴ·ᐊᑎᓯᐟ
ᐅ ᓴ·ᐁᐳᒋᑫ·ᐃᔨ
ᑲᑭᑫ ᐁ ᐊᐅᓂᓵ

ᒪᑭᐱᐃᒪᑎᓯ·ᐃᓗ ·ᐊ·ᐃᑕᒪᕐᓴ·ᐃᓐ

58. ᓂᓴᓇᓄᑎᑐᓇᐤ ᐊᐳᓇᓱᐊᓴᑦ

1. ᐁᒪᒪᖏᑲᑕᒪᓗ
ᓂᐟ ᐃᑦᐱ ᐱᑭ
ᓂᑌᐃᑦ ᐃᑕ ᐁᑕ·ᑲᑦ
ᒥᕐᐟ ᒪᑭᑎ·ᐃᓗ

2. ᐅᐅ ᓂ ·ᐊᐸᑌᓗ
ᐃᒪᒪᑯᓯ·ᐃᓗ
ᐁ·ᑲᓯᐃ·ᐁ·ᐃᓗ ᓂᖏᑕ
ᐸ·ᑲᓯᐃ·ᐁ·ᐃᓗ

3. ᐅ! ᒣᖏᑲ·ᐃᓯᓴᓗ,
ᐅᐅ ᓴᑯᑭᑕ;
ᓂᑌᐃᓕ ᐅᑭ ·ᐁᐱᓇ
ᑎᐱᖏᑭᓯ·ᐃᓇ

4. ᐅᒪ ᑐᑕ, ᐁᑯ
ᕿ ᒪᒥᑭᒥᑕᓗ
ᑭ ᑲ ᓴᑭᐃᑎᓗ ᓂᖏᑕ
ᑭ ᑲ ᑦ·ᐯᑕᑎᓗ

ᓂᑲᒧᐊᑦ ᑭᕈᓂᓐ

59. ᓀᑲ′ ᓂᑯᑦᓯᒥᕆᓇᓄ

1. ᐃᓂᓂᐸᓗ ᐅᑦ ᐊᐢᑭᓗ
ᓂᑲᒧᐊᑦᓕ ᑦᐁᓯᐃᑦᐁ′
ᓯᑭ ᓂᐢᑦ ᐊᑐᐢᓀᐢᑦᓕ
ᓴᐢᐱᒃ ᐁ ᓯᑭᓂᓯᔪᓕ

2. ᑦᐃᓇ ᑭᕈᓂᓐᑐᐃᓄ
ᐊᓇ ᑲ ᑭ ᐅᓯᐃᑦᓕ
ᑭ′ ᐃᓂᓂᒥᒥᑯᓇᓄ
ᒧᓕᓗ ᓀᓇᑦᐁᐳᒥᑦ

3. ᐱᑐᓀᓗ ᐅ′ ᐃᐢᑲᑌᒥ
ᓴᐢᐱᒃ ᑭᑎ ᒪᒥᑎᒣ ;
ᓇᓇᑐᒥᑦ ᓇᓴᐢᑲᒥᑦ
ᓀ ᐃᓯ ᑐᑕᒣᑭᐸᑐ

4. ᒪᓂᑐ ᑭᓵᐊᑎᓯᓄ
ᒧᓕᑦ ᑦᐃ ᓵᑦᐁᐳᑭᓀᓄ
ᐅ ᑦᑉᐯᑦᐃᑐ ᓯᐅᓂᐳᓄ
ᑲᑭᓀ ᑲᑕ ᐊᑦᓴᓂᓄ

ᓂᑭᖁᔨᑐᓗ ᐁ ᐱᒪᑎᓕᒃ ᐯᒪᑭᐃᑉ

60. ᓂᐩᑕᓕᒥᕆᓚᓄ

1. ᐱᒪᑎᓕᓄ ᐯᒪᑭᐃᑉ
   ᖁ ᐅᑭ ᒥᐧᓄᓂᑕᒪᓗ
   ᐱᒪᑎᓕᓄ ᐧᐁᖏᒃ ᓂᐱᑉ
   ᒧᐸᑦ ᓂ ᑲ ᑎᐯᔨᒥᑦ

2. ᑲᑕ ᑭᖁᔨᑕᑯᓕᓄ
   ᓂ ᒥᔪ ᑭᒥᐅᑭᒪᖅ
   ᓵᖁᐃᒃ ᓂᒧᒥᖁᔨᑐᓗ
   ᑲᑭᖁ ᐁ ᐱᒪᑎᓕᓄᑉ

3. ᑲᑕ ᓕᐧᑲᑕᑎᓗ ᓂᔭᓄ
   ᑭ ᓇᑲᑕᒪᓄᒃ ᐊᖁᑭ,
   ᐁᓂᐧᐁᑦ ᐊᑕ ᕿᑎᒪ
   ᒥᓇᐧᐊᒃ ᓂ ᑲ ᐧᐊᕿᒪᓄ

4. ᒋᐧᐯ ᑲᑕ ᓂᔭᑕᐧᐃᓄ
   ᓂ ᑲ ᐧᐊᓂᖁᑲᓂᓕ ᒪᑲ
   ᑭᕿᔨᑲᒥᓄᑦ ᐅᑭ
   ᐁᓄ ᒥᓇ ᖁ ᐧᐊᕿᒪᑦ

ᐃᒥᒋᒥᑦ ᐯᐃᒧᐅ·▽ʻ

61. ᓂᑯ·ᑕᓯᒥᑕᓇᓄ ᐯᖃᑯᓴᑦ

1. ᐯᒋ ᑕᑯᓯᓂᑦ
ᑲ ᐄᓱᑭ▽ᑦ ᒋᓴᑦ
ᓇᑢᐱᒃ ·ᐃᒋᐃᑐ
ᑭᒋ ᐃᒥᒋᒣᑦ:
ᑭ·ᓴ·▽ᑦ ᐊᓂᒍᑕ·ᒪᑦ
ᐅ ᑭᒋʼ ᓯᓂᑲᓯ·ᐃᓗ

2. ᒡ·ᐯ ᑭ ᓇᑲᑕᑦ
ᐅ ᑭᒋ ᐊᐱ·ᐃᓗ
ᐅᑕ ᐊᒃᑭᑦ ᒪᑲ
ᑭ ᐄᑐ, ᑭ ᓂᐱᓄ
ᓇᑢᐱᒃ ᑭ ·ᐃᓴᑫᓕᑕᑦ
ᐃᑢᐱᒥᑦ ᒋ ᐅᐱᓂᑕᑦ

3. ᑭ ᐅᒋ ·ᐊᓂᒃᑲᓄ
ᒋᐸᓕᑲᒥᑯᓴ
▽ ᑭ ᐸᒃᑭᓇ·ᐊʻ
ᑲ ᑭ ᓇᑎᓂᑯʻ
ᓂᒃᑕ ᐄᒃ ᐊᓇᒃ ᒥᓇ
ᐊᐱᓄ ᑭᒋ ᐊᐱ·ᐃᓂᓴ

4. ᒪᒋᒃ ᑭᓯᑲᕐ
ᑲᑕ ᓂᓴᑕ·ᐃᕐ

ᑭᒋ ᓯ·ᐯᑕᐅ′
ᐅ′ ᐊ·ᐊᓯᒥᓴ
ᐁᑯ ᒥᓇ ᕿ·ᐊᐸᒪᑊ
ᐁᑯ ᕿ ᓂᑲᒧᑕ·ᐊᓗ

ᑌᐯᓕᒋᕿ′ ᐅ′ ᐊᖅᒥᐊ·ᐃᓐ

62. ᓂᑯ·ᑕᓯᒥᑕᓇᐤ ᓂᓯᓴᓗ

1. ᓚᑦ ! ᑭᓯᑯᓗ ᐁᖅᖅᓐ
ᑌᐯᓕᒋᕿᖅᓐ
ᑲᑕ ·ᐃ ᑭᑎᓕᑕ·ᑲᓐ
ᐁᓯᓂᑲᓯᖅᓐ

2. ᑲᑕ ·ᐃ ᐅᑎᑭᐸᓕᐤ
ᑭ′ ᐅᑭᒪ·ᐃ·ᐃᓐ
ᑲ ᑐᒋᑲᑌᓗ ᐃᑦᐱᒥᓗ
ᑲᑕ ᐃᑭᓐ ᐊᑦᑭᓗ

3. ᑕ·ᑕᐤ ᐁ ᐊᑎ ᑭᓯᑲᓗ
ᒥᓂᓇᓐ ᕿ ᐅᒋ
ᐱᒪᑎᓯᓵᑊ ᐊᒍᓯᑊ
ᓂᑦᑕ ᓂᖅ·ᐃᓇ

4. >ᓂᓕᑦ ᑲ ᑐᑕᒪᑦ
ᐁ ᐧᐊᓂᑐᑦᑦ
ᐁ ᐃᓱ >ᓂᓕᑦᒪᑦ
ᐁ ᑐᑦᑲᐧᐃᔭᑦ

5. ᐁᑲ ᑭ ᒪᑭᑐᒪᑦ
ᒧᐸᑦ ᐧᐃᑭᐃᓐᓇᓗ
ᓂᐢᑦ ᑲᓐᐧᐁᓕᒥᓗ
ᑲ ᐃᓐᓇᑦ ᐅᑭ

6. ᑭᔭ ᑭᐟ ᐊᐅᔭᓗ ᑲᑭᑫ
ᑎᐯᓕᑭᑫᐧᐃᓗ
ᓱᑲᑎᓱᐧᐃᓗ ᐊᓱᑭ
ᐃᒋᒥᒋᔨᐧᐃᓗ

ᑭ ᑲ ᐸᑭᐊᓐᓂ ᔨᑦᐧᐃᓐᓂ

63. ᓂᔨᐧᑑᓱᒋᓐᓂ ᓂᐢᑐᐸᑦ

1. ᑭ ᑲ ᐸᑭᐊᓐᓂ ᔨᑦᐧᐃᓐᓂ
ᐃᐢᐱᒋᑦ ᐅᑭ ᐯᒥᑎᐸᐧᐁᐢ
ᐅᔨᓱᐸᓵ ᒋᐸᐸ ᑲ ᐸᑭᐊᓱ
ᐧᐃᓐᓂ ᐅᒃ ᐁ ᐧᐃ ᐱᐃᒋᒥᐃᑦᑦ

2. ᒥᓯ·▽ ᑭ ᓂᑕ·Δᑭᓭᓇᐤ
ᒪᒋ·ᑕ·Δᓂ᙮ ▽ ᒪᒋᑌ▽ᖅᔪ
ᑲ ᑐᑕᒪ᙮ ᐅᒋ ᓂᐟᑕ Δ·ᑌᖅ᙮
ᑭᒋᒪᔭᐢ ᑭ ·ᐊᓂᑐᑕ·ᐊᓇᐤ

3. ·Δᓇ ᐃᒃ ▽ ᑭᓴ·ᐋᑎᓯ″
▽ᒃ ▽ ·Δ ᓇᓗᑲᒋΔᑕ᙮
ᑭᒥᓂ·▽ᐤ ᐯᐃᒋΔ·▽ᓂᒋ
Δᐟᐱᒥ᙮ ᑲᑭᕐ ᑭᒋ ·Δᑭᒪ᙮

4. ᑲ ᓴᑭΔᑦ᙮ ᑭᐟᑕᒋᐃᒐᐤ
ᓴᑭᐊᑕᐤ ᐃᒃ ᑯᑕ·Δᓇᐤ,
·Δᐊᑐᐟᒃ·ᐊᑕᐤ, ᐃᒥᒋᐃᒐᐤ
ᒋᓴᐟ Δᓐᑯᐢ ᕐ ᐱᐃᑎᓯᔪᐢ

ᑭᓯᒋᑲᑌᐤ

64. ᓂᑯ·ᑕᓯᒥᑕᓇᐤ ᓗᐅᓴᓕ

1. ᓴᑭΔ·▽·Δ Δ·ᑌ·Δᑐ
᙮ ᐯᑕ·ᑲᑐ ᑲᕐᐸᑐΔΔᐢ
ᑰᐟᑭᐸᓂ·ᐊ ·ᐊᒋᔪ,
·ᑭ·ᑲᑐ, ᓂᐟᑕ ᑎᐱᐟᑲᐤ
ᑭᓯᒋᑲᑌᐤ
Δ·ᑌᐤ ᓗᐳᐟᑕᐃᒪᕐᐢ

2. ᑭᓯᒥᑲᑌᓂᐤ ᐁᐧᑲ
ᐅ ᐱᒧᒪᐃᐧᐁᐧᐃᓗ,
ᒥᓯᐧᐁ ᑭᓯᐠ ᕿᐧᑲᓇ
ᑭ ᒥᓐᔨᐧᑯᐧᓇᓂᐤ;
ᑭ ᓯᒥᑲᑌᐤ
ᐃᓂᓂᐧᐊᐠ ᑭᐢᑭᓯᐠ

3. ᑭᓯᒥᑲᑌᐤ ᒥᑐᓂ
ᐧᐁᐯᐅᑦᒪᕿᐧᐃᓗ,
ᓂᐱᐧᐃᓗ, ᒪᒥᐃᐢᑯᑌᐤ
ᐳᓂ ᖃᑭᐃᐧᐁᐧᐊᐤ,
ᐁ ᑭ ᑭᓯᑦᐠ
ᐅ ᐱᒧᒪᐃᐧᐁᐧᐃᓗ

ᐊᐢᐯᐅᒧᐧᐃᓗ

65. ᓂᑯᐧᑦᓯᒥᑦᓇᓂᐤ ᓂᐳᓇᓄᖃᐠ

1. ᐊᐧᐁᓇ ᑭᓯᑯᐠ ᐁᑦᐠ
ᕿ ᐊᐢᐯᐅᒧᑑᑦᐧᐊᐠ?
ᑭᐳ ᐱᑯ ᑭᒥᒪᑦᐣ
ᒧᖃᐠ ᖃᐧᐁᐅᒥᕿᐳᓗ

2. ᓇᒪ·ᐃᓇ ᐅᑕ ᐃᑕᓂ
ᐊ·ᐁᓇ ᖃ ᑭ ᓴᑭᐊᑦ
ᐁ ᐃᑉᐱᒋ ᓴᑭᐃᑕᔭ
ᑲ ᐊᑉᐯᐸᒍᑕᑦ

3. ᒋ·ᐯ ᐃᓴ ᑭᒋ ᖃ·ᑲᔪ
ᑭᒋ ᓇᑕᑦ ᓂ ᒪᓂᑦ
ᑭᒋᑭᓯᑦ ᐁᑯᑕ
ᒋ ᐃᒥᒋᒪᑦ ᑲᑭᖃ

4. ᓂ′ ᐊᑉᐯᓵᒍᑕ·ᐊᓂ
ᐃᑉᐱ¯ ᖃ ᐱᐃᒪᑎᓯᓵᔪ
ᒋ·ᐯ ᑭᒋ ᐅᑎᑕ·ᒪᑦ
ᐅ ᑭᒋ ᐅᑭᒧ·ᐃ·ᐃᔪ

ᓴ·ᐁᐸᕆᑯᓯᓂ ᐅᑕᓵᒥᐊᓂ

66. ᓂᑯ·ᑕᓯᒥᕆᓇᓂ ᓂᑯ·ᑕᓯᓴᑦ

1. ᓴ·ᐁᐸᕆᑯᓯᓂ ᒋ·ᐯ
ᑲ ᐋᔪᒥᑭᖃ′
ᐅ ᒪᑭᐊᐸᑎ·ᐃᓇ
ᑲ ·ᐁᐯᐸᕆᒪ′

2. ᑭᓯᑯ ·ᐊᑎᑌ·ᐃᓂᓂᓂ
ᐁ ·ᐊᑎᑌᓇᒧᒍ′

ᐃᑦ ·ᐁᑭᒪᒃᓂᓂᖅ
ᐅ ᒥ·ᓂᓂᒧ·ᐃᓗ

3. ᐊᓇ ᑲ ᑭᑎᒪᑭᓯ
ᑲᑦ ᓇᑦᒧᐸᓗ
ᓴ·ᐁᐳᑭᕐ·ᐃᓂᐳᓂ
ᑲ ᒥᐳ·ᐁ ᑭᓴᑦ

ᒥ·ᓂᓂᒧ·ᐊᖅ ᐅ·ᑲᓴᑭᑦᑎᓯ·ᐊᖅ

67. ᓂᑯ·ᑕᓯᒥᑕᓇᓂ ᑌᐸᑯᐳᓴᖅ

1. ᒥ·ᓂᓂᒧ·ᐊᖅ ᐊᓂᑭ
ᑲ ᑭᐢᕐᐳᒪᑭᖅ
ᑭᑭᒪᓂᓗ·ᐊ ᒧᓴᖅ
ᑲ ᐅᓴᑭᐃᑯᑭᖅ

2. ᐅ ᑲᓇᑭ ᐃᓂᓂᒪ
·ᐁᐟᑲᒃ ᑭ ·ᐃᑭᐁᓂ
ᓂᐟᑕ ᑭ ᑲ ᒥᐳᑯᓇᓂ
ᐅᐅ ᑲ ᒥᐳ·ᐁᖅ

3. ᓇᐟᐱᒃ ᒪᓗᓗ·ᐃᓇᑯᑦᓂ
ᐅ ·ᐊᐟᑲᐃᑲᓂᖅ,
ᐁᑯᑕ ·ᐃ ᐃᓗᑎᑕᖅ
ᑭ ᒥ·ᓂᓂᒧᓴᖅ

4. ᑭ ᒥ·ᓄᓂᒧᐃᑯᓐᓂᐤ
ᐁ ᑭᑎᒻᓱᓴᓵᓱᐧ
ᑭ ᓗᑭᑌᐁᐃᑯᓐᓂᐤ
ᐃᓕᐱ ᑯᓕᒋᑦᓱᐧ

5. ᐅ! ᒪᓂᑐ ·ᐃᓗᐃᓐᓄᑐ
ᑭᒥ ᐊᖏᐃᑕᓕ
ᐁᑯ ᑫ ᐄᒥᒥᒥᓕ
ᐃᓕᐱᒥᐧ ᑭᓗᑯᐧ

ᐅ ᐊᖏᐃ·ᐁ·ᐃᑐ ᑭᒥᒪᓂᑐ

68. ᓂᑯ·ᓕᓗᒥᓇᓐᓂᐤ ᑌᕐᑯᓂᓴᐧ

1. ᐁᓕᐱᒥ ᐊᖏᓕᐧ ᐊᓕᑭ
ᑲ ᑎᐯᓵᒥᑫᐧ
ᐅᑯᓗᓴ ᕿᑭᑎᓂᐤ
ᒥ ᓂᕿᓵᒥᒥ

2. ᐊᓐᓄ ᑲ ᒋ·ᐯᔪᓵᒪᐧ
ᐁᑲ ᑭᒥ ᓂᐱᐧ
ᑲᑭᑫ ᐱᐃᒪᑎᓗ·ᐃᑐ
ᑭᒥ ᑭ ᐅᑎᑦᔪ

3. ᑦ·ᐯ ᑭ ᑭᓴ·ᐊᑎᓯᐣ
ᐅᒣᓂᐣ ᑲ ᑐᑦ;
ᑭ ᑭ ᐱᒪᒋᐃᐊᑯᓄᐣ
·ᐁᒋ ᒪᒥᒋᒪᑊ

ᐅ ᓴᑭᐃ·ᐁ·ᐃᓗ ᒋᓴᐢ

69. ᖃᑲ′ ᑌᐸᑯ′ ᑕᒥᕈᓇᐣ

1. ᒋᓴᐢ ᐁ ᑭ ᓴᑭᐃᑕᑊ
ᐁ·ᐊᑯ ᑲ ᐅᒋ ᓂᐱ′,
ᒪᑎ, ᑭᑌᐃᓇᑊ ᐅᒋ
ᐁᑯ ᓂᑲᒧᒋᑕ·ᐊᑕᓐ

2. ᑦ·ᐯ ᑭ ·ᐃᓴᖃᐅᑕᑉ
ᒥᓯ·ᐁ ᑭᓇᓇᐣ ᐅᒋ,
ᑭᒋ ᑭ ᐱᒪᒋᐃᑕᑊ
ᒪᐃᑎᓯ·ᐃᓂᑊ ᐅᒋ

3. ᑭ ᑭ ᐊᐸᐊᒧᑯᓇᐣ
ᑭᒋᑭᓯᓴ ᐅ′ ᐃᒃ·ᑲᑌᑉ
ᑲᑭᖃ ᓂᒃᑕ ᑲᑭᖃ
ᑭᒋ ᒧᒋᖃᐅᑕᒪᑊ

4. ᑦ·ᐯ ᑭ ᓂᐳᒃᑕᒧᖃᐣ
ᒥᓯ·ᐁ ᒋ ᐱᒪᒋᐊ′;

ᓴᓵᐱᒃ ᓇᓴᓵᑯᒧᒪᑕᐅ X
ᑲ ᐃᓵᐱᒥ ᓴᑭᐅᑕᓪ

ᑕᑲᐅ ᐁ ᐱᒧᒪᑎᓯᓇᓂᐅᓪ

70. ᑌᐸᑯᑊ ᑕᑎᑕᓇᐅ

1. ᐁ ᐱᒧᒪᑎᓯᓴᓂᐅᓪ
ᑕᐧᐯ ᓴᓵᐱᒃ ᑕᑲᐅ
ᐧᐃᐸᒃ ᑭ ᓇᑲᑌᓴᓇᐅ
ᒥᓯᐧᐁ ᐁᐳᐳᓪ

2. ᒣᑭᐧᑕᔪᓪ! ᓄᐧᑲᒥᓯᓪ
ᐁᑲ ᐧᐁᐱᓇᐧᒪᓪ
ᐅ ᓴᐧᐁᐣᑭᕐᐃᓇ
ᑲ ᑌᐯᐣᑭᕐ

3. ᐅ! ᑭᓴᒃ ᓇᑕᐧᐊᐸᒥᓪ
ᑲ ᓂᐸᓵᑕᒪᑕᓪ,
ᑭ ᐸᑭᑎᓂᑎᓯᔪᓪ
ᑭᒋ ᐊᑐᓵᑲᐧᐁᓪ

4. ᓄᔦᐧᑕᔪᓪ! ᓯᑭᓂᓯᓪ;
ᑭᐟ ᐅᑭᒪᒥᐧᐊᐤ
ᐧᐃᐸᒃ ᑭ ᑲ ᐃᑎᔨᐧᐊᐤ
ᐁᔨ ᐯᒋ ᓴᓯ

5. ·△<⁻ ᑭ ᑲ ᓇᑌᓇᓭᐤ
ᑭᒥᑭᓯᓗ ᐊᐢᑭ,
▽ᑯᑕ ᕿ ·△ᑕᐱᒪᓗ
ᒥᓘᐢ X ᑲᑭᕿ

▽ ᐃᒥᒥᒋᒪᑲᓂ·△′ ᐯᐃᒥᑭ△·▽′

71. ᑌ<ᑯ>ᒥᑕᓇᐤ ᐯᔭᑯᓘ'

1. ᒪ·ᐊ⁻ ᓭᐦᑲᑎᑦᑐᓗ
ᓂ>ᐢᑕᒪ·△ᔭᓗ,
ᑭ ᓘ·▽ᐳᒥᕿ·△ᓇ
ᓂ ᑲ ·△ ᐊᑭᑌᓗ

2. ᑭ ·△ ᐊᐢᐯᐳᒍᑕᑎᓗ
ᑲᑭᕿ, ᑲᑭᕿ,
ᑭ ᒥᓪ ᑐᑕᕿ·△ᓇ
ᓂ ·△ ᐊᐳᒍᑌᓗ

3. ᓂ ᑲ ᐱᒍᑕᔪ ᒣᐢᑲᓇᓕ
ᑭᓭᑯᓕ ▽ᑕᒍᓕ,
ᓄᑕ·△ ▽ ·△·ᐊᐸᒪᓕ
ᐅᓀᐱ⁻ ᑲ ᓱᑭᐊᓕ

4. ᓇᓂᑲᑌᓗᒍᒧᑐᓂ
ᐁ ᒪᑭᑐᑕᒃ,
ᓂ ᑲ ᓇᑐᑕᒪᐅᐤ X
ᑭᑭ ᑲᓇᑭᐃᐟ
5. ᓂ ᑲ ᐅᐃᑌᓄ ᓂᐟ ᐅᑭᒪᑦ
ᐁ ᑭ ᓴᑯᑭᑕᐟ
ᒪᑭ ᓯᑲᑎᓯᐅᐃᓇ
ᑲ ᓇᐢᑯᐢᕈᑯᓂᓄ

ᖃᐅᑲᐟ ᖃ ᒥᓇᓵ ᑭᑭᒪᓂᑐ

72. ᑌᐸᑯᐳᒥᕈᓇᐅ ᓂᓯᓴᑦ

1. ᐅ! ᖃᑭᒪᓂᑐᐅᐃᓂᓄ
ᖃᐅᑲᓄ ᖃ ᑭ ᒥᓂᕈᓄ ?
ᑭᓂᕈ ᒥᑐᓂ ᐅᑎᓂᓄ,
ᓂᐟ ᐊᐄᑯᑦ ᑭ ᒥᐸᑎᓄ,
ᐊᕈ ᐅᐃᓇ ᐊᐱᓴᓯᓄ
ᐁᐅᐊᑯ ᐱᑯ ᓂᐟ ᐊᐄᓂᓄ
2. ᐁᑯ ᐃᒃᑲ ᐁ ᐊᓂᓂᓄ
ᑭᓇ ᑭ ᑲ ᑎᐯᐸᑌᓄ
ᒥᑐᓂ ᑲᓇᐅᐁᐸᕈ
ᑭᑭ ᓴᑭᐃᐅᐁᐅᐃᓂᔪ;

ᐋᓵᐱᐧ ᓂ ᓇᑦᐁᐅᓐ
ᑭᓂᐱ ᑭᒋ ᐋᑎᑦ

3. ᐁᔪ ᐁ ᑎᐯᐅᒥᓕ
ᑭ ᑲ ᐊᓵᐯᐅᒍᑦᑎᓐ,
ᑭ ᓇᑦᐁᐅᑦᑕᒍᐧᐃᓐ
ᒍᓴᐧ ᕿ ᐧᐊᕮᑎᐅᓕ
ᐃᓵᐱᐧ ᐁ ᐱᒪᑎᓯᓕ
ᑭᒋ ᓇᐃᓇᐧᐁᐃᑦ

4. ᑲ ᒪᒋ ᐱᒋᓱᔪᓕ
ᐋᓵᐱᐧ ᓂᐟ ᐊᓇᒥᐃᔪ
ᐋᓵᐱᐧ ᓂᐟ ᐧᐅᒋᑲᐧᐊᐱᓐ
ᐁ ᐃᑌᐅᒥᑎᓯᓕ
ᐁ ᐄᒥᑐᓱᐅᑦᑕᒪᓐ
ᐁᓵᐱᒋ ᐧᐊᓂᑐᑦᑦᓐ

5. ᑭ ᑲᓇᒋ ᐊᐄᓵ ᒥᓂᓐ
ᓂ ᐊᐄᑲᔪ ᑭᒋ ᐃᑦᐟ
ᑭᒋ ᐧᐊᕮᑎᓂᐧᐁᓕᓐ
ᐁ ᐅᐟ ᐊᐧᐊᔪᒥᔪᓕᓐ
ᓂᓪᑦ ᐁ ᐃᑌᐅᑦᑕᒪᓐ
ᐃᓵᐱᒥᓵ ᑭ ᐃᑐᑌᐄᓕᓐ

ᐅᑦᐅᑕᑦ ᐅᐱ ᐊᓂᐅᓗᒧᐅᔪ

73. ᑌᕐᔪᐅᒥᓇᓄ ᓂᔪᓴᑊ

1. ᓂ ᒥᐧᓄᓂᑎᐃᔪᐢ
ᐁ ᑎᐅᓗᒥᖅᔪᐢ ᒥᕿᓂ;
ᐁ ᐧᐊᓱᑌᑊ ᑭ ᑕᓂᒥᑊ
ᕿᑎᑦᒪ ᓂ ᑲ ᐧᐊᕐᑌᔪᐢ

2. ᐃᓱᓇᐧᑲᔪᐢ ᐱᐧᐊᒧᐧᐃᔪᐢ
ᐃ ᐱᒪᑎᓱᓇᓂᐧᐊᑊ,
ᒪᑲ ᐃᓂᐱᒥᑊ ᐃᑕᐧᑲᔪᐢ
ᑦᐧᐅ ᒥᐧᓄᓂᑕᒧᐧᐃᔪᐢ

3. ᐅ! ᖁᐧᓇᓱᑊ ᑕᓱᕐᐧᐃᔪᐢ,
ᑦᓂᓀᐱ ᕐ ᔪᓀᔪᓱᖅᑊ
ᐊᑐᑕ, ᓂᓀᑕ ᐧᐃᑕᐱᒪᑊ
ᑭᕿᓀ ᓂ ᑭᒥᐅᑭᒪᑦ?

4. ᓂᖅᓄᐧ ᑲᑕ ᓂᐳᒪᑲᔪᐢ
ᐳᑕᑭᑲᔪᐢ ᐯᑕᐧᑲᕐ,
ᐁᔪ ᕐ ᐧᐊᓂᓀᑲᒪᑲᑊ
ᐁ ᐃᓱᓇᐧᑲᑊ X ᐧᐃᖅᓄᐧ

ᑭᒥᑭᓯᒃ·Δ ᓯᑭᓂᓯ·Δᑉ

74. ᑌᐸᑯᐳᒥᑕᓄᐤ ᓂᐅᕐᓴᑦ

1. ᑲ ᐃᓱᑭᐊᑦ ᑭᓴᑉ
·ᐊᐸᑎᓕ·ᐁᑕᐤ
ᐁᑉᐱᒥ ᒥ·ᓂᓂᑕᒪᑦ
ᐁ ᓂᒃᒍᑉᑕ·ᐊᑦ

2. ᐅᐟ ᐊᓵᒥᐊ·Δᓗ
ᑭ ᒥᓂ·ᐊᓂ·ᐊᓗ
ᒥ ᐅᒥ ᒥᓴᑕᓂ·ᐊᑦ
ᒥ·ᓂᓂᑕᒍ·Δᓗ

3. X ᐅᐟ Δᓂᓂᒪ
ᐅᑕ ᑭ ᒥᑉᒃ·Lᑦ
ᑭᒥᑭᓯ·ᑯ·Δᒥᓇ
ᐁ ᓂᑕ·Δᑭᑭ

4. ᒥᕀᐟ ᒣ·ᓇᓯᑭ
ᒥᓂ·ᐊᓂ·ᐊ·ᓇ
ᐁᒍᓴᑉ ᐅᑎᑭᒃᑌᑦ
ᑭᒥᑭᓯᑦ ᐊᑉᑭ

5. ᓯᒃ ᓂᒃᒍᑕᐤ
ᐅᑕ ᐁ ᐃᑦᓵ

·△<⁻ ᑭ ᑲ ·◁<İᓇᐤ ᑲ ᐱİᒪᒥᐊᑦ

ᒥᓴᑦ ᐅ ᐱİᒪᒥᐊ·∇·Δᑦ

75. ᑌ<ძ>ᒥᑕᓇᐤ ᓂᔪᓇᓄᓴᑦ

1. ᑲᑭᔪᐤ ᐅᒪİᑎᑎᓴᑦ
ᑲ ᓂᓯ·◁ᓇᒥᐅᕋᓴᑦ
ᑭᓴ⁻ ᐯᒥ ᓇᑎᑦ ᒥᓴᑦ
◁ᓇ ᑲ ᑲ·ᑲᑕᑭᓯ″

2. ᒥᓴᑦ ◁ᓇ ᑲ ᑭ ᓂᐱ′
ᐅᒪİᑎᓯ·◁ ᐅᒥ,
∇ ᑎ<Δᕐᑕᒪ·◁′
ᐅ ᒪᒥᑎ·Δᓂᓂ·◁

3. ᑭ ᓂᐱᐤ ᑭᒥ ᑎ<◁ᑦ
◁ᓂΔ ᒪᒥᑎ·Δᓇ
∇ᑲ·Δᓴ ᑲ ᑭ ᑐᑦ
İᒪᑲ ∇ ᑭᓴ·◁ᑎᓯ″

4. ᑲ·ᕐᒥ İᒥᒥİᒪᑕᐤ
ᑦᐱᕐძ⁻ ∇ ᓴᑭΔᑦ.

▽ ᑭ <ᑭᑎᓂᑎᓯ
ᒧᓴ ᒥ ᓂ>ᐢᑕᒪᑦ

ᑭᓴᐢ ᓂ ΔUᓕᒧ·Δ›

76. U<ժ>ᒥᑕᓇᓂ ᓂժ·ᑕᓯᓴᑊ

1. ᑭᓴᐢ ᓂᑎUᓕᒧ·Δ›
ᐱᐢᐱᒥᑊ ᑲ ᑭ Δ›Uᓯ
·Δᓴᐳ ᐱᑲ ᓂᒪᒥᓯ›
ᓂᐢᑕ ▽ ·Δ Δ›Uᓵᐳ›

2. ᑕ› ᑲ ᒥ·ᐊᑎᓯᑭᑊ
▽ժᑕ ᑭ Δ›U·ᐊᑊ,
▽·ᐊժ ᐱժ ᒣᐢᑲᓇᓂ
ΔU ᑭᒋ ᒥ·ᓄᓂᒪᑊ

3. ᑭ·ᓄᐢ ᐃᑕ ᓂ ᓇ›ᓄ›
ᒪᑲ ▽ᑲ ▽ ᒥᐢᑲᐃᓗ›
ᓂ ᑭ ᑲ·ᑲᑕᑫᓕᒧ›
·▽ᓴ ▽ ᒪᐃᑎᑯᓵᐳ›

4. ▽ ᐊᑕ ᓇᓇᑭᐢᑕᐃᓗ›
ᐊᑕ ᓂ ᓴժᒋΔժ›,

ᒥᓴᑦ ᓂ ᐯᑌᓄ ᐁ ᐃ·ᑌ′,
ᐊᑦᑕᑦ ᓂᓗ ᐅ ᒣᑦbᓭ°

5. ᐁᑯ ᓂ ᒧᒥᑫᐳᑌᓄ
ᒥᓴᑦ X ᐁ ·ᐃ ᐅᑎᓂ′
ᐁ ᐊᑦᑕ ᒪᐃᑎᓂᓯᓄ
ᐁᐳ·ᐁᑊ ᐁ ᑭ ᓴᑭᐃ′

ᑭᒥᒪᓂᓄ ᐅ ᓴᑭᐃ·ᐁ·ᐃᓄ

77. ᑌ<ᑯ>ᒥᑕᓭ° ᑌ<ᑯ>ᓴᑊ

1. ᑭ ᓴᑭᐃ·ᐁ·ᐃᓄ ·
ᓂ·ᐊ<ᑎᐳᑯᓄ
ᑭᒥ ᓴᑭᐃᑕᓄ ᓂᑦᑕ
ᑭᒥ ᑦ·ᐯᑦᑦᓄ

2. ᒣᒥᓂᓄᑦᑦᓄ
ᑦ·ᐯ ᓂb ·ᐃᑌᓄ
ᑭ ᓴ·ᐁᐳᒥᑫ·ᐃᓭ
ᒧᓴᑊ b ᒥᐳᓄᓄ

3. ᑕ·ᑕ° ᐁ ᑭᓂbᑊ
ᓂᑦᑕ ᐁ ᑎᐱᑦbᑊ

▽ σ<ᓵ, ძᑫძᓵ
σ ρ ·◁ᑫᑲᑲძᐣ

4. ᒣ·ᑲ⁻ ·◁σᓯᓛº
ᒪᐃᑎᓯ·△σᑦ
ρ ρ ᓱᓪᑕ·◁<Γᓗ
▽ᑭ ᓵᑭᐅᓵᓗ

5. ρ ρ ·◁<ᑎσᓗ
ᑭძᓯᑫ ▷ Γძ,
ρ ρ ᑭᒋᑕ<·◁σᐣ
ᒋ ᑲᓪᑎᓯᓵᓗ

6. ρ ·△ ᓵᑭᐅᑎᐣ
▷ᑕ ▽ △ᑦᓵᓗ,
◁·◁ᓯᑌ σ ᑲ ᑐᑌᐣ
△ᑫᐱ ·◁<Γᑦᐣ

ᐱᒍᑌᐅᐣ ᐯᒪᑭᐅ·▽ᓵᓗ

78. ᑌ<ძ>Γᑕᓪº ◁ᐳᓪᓄᐅᐸᑊ

1. ᐱᒍᑌᐅᐣ ᐯᒪᑭᐅ·▽ᓵᐣ
ᐱᒍᑌᐅᐣ
▽ ᑎᐱᑫᑲᑊ, ᓪ·ᐅᓪ·ᑲᐣ σᑭ ;
ᐱᒍᑌᐅᐣ

σLσ·Δ ᓇ·◁<Uᓗ ∧ժ
Δ^∧⁻ V⊃·bº ٩ (ժ^٩⊃ᓗ

2. ᓇL ·▽^b⁻ ᑭᑭ ΔΠΠ(º
∧⅃UΔᓗ;
σ ⊓^bᓇ᾽ σ ᑭ ∧⅃U(º;
∧⅃UΔᓗ
▽ժ σ ᑭ^U⊃⅃·Δᓗ ▽b
Γᓇ ᑭᒋ ∧⅃UΔժ̇⊃ᓗ

3. ᑭ·ᓂ^ ᑭᑭ ∧⅃UΔᓗ, ▽^·b
∧⅃UΔᓗ
<·b(^ᑭ᾽, ▽ <̇V^·b᾽, ∧σ^
٩ ᑭᓯb᾽
Δ^∧ ٩ ·◁<Γ(ᓗ bᑭ٩
ᓇ^∧⁻ ᒋ Γ·ᓂσ(ΓΔ⊃ᓗ

ΔLσºΔᕄ, V(·Δᓇ

79. ٩b′ ◁⊃ᓇᓂΓ(ᓇº

1. ΔLσºΔᕄ, V(·Δᓇᓗ
Γᓇ·◁ΡΔᓇᓗ

∇ ᓇᓂᑲᑌᓵᒍᒧᓴ
ᐱᒋ ᓂᑌᐃᓇᓛᑦ

2. ᓂᐟ ᐊᐢᐯᓵᒍ·ᐃᓂᓇᓄ
ᓂᓇᒥᓗᒪᑲᓄ
ᑭ ᕿᑦᓴᓵᒥᑎᓇᓄ
ᒋ ᒪᐢᑲ·ᐃᑕᓴᓄ

3. ᐅᐢᐱᐧ ᒥᐢᐟ ᑯᑕᑭᓴᑦ
ᑭᑭ ·ᐃᒋᐊ·ᐊᑦ
∇ ᐃᓗ ·ᐃᑕᒪᑯᓴᑦ
ᑭ ᒪᓗᓇᐃᑲᓄ

4. ᐊᓇ ᑲ ᐊᓴᒥᐁᐢᑕᑦ
ᓂ ᑦ·ᐯᑌᓄ ᐁ·ᑌᐟ
ᓂᐟ ᐊ·ᓂᔪᓵᑕᒍ·ᐃᓄ
ᐅᑭᒪ°, ·ᐃᒋᑕ

5. ᐃᐢᕿ° ᓂᐢᑕ ᑭ ᐊᑯᐅᓄ
ᑲ ᐯᒋ ᓴᒥᓇᑦ
ᑭᓵᒣᓵᑕᒍ·ᐃᓂᑦ
ᑭᑐᑌ, ᑲ ᐃᑕᐟ

6. ᑭ ᑦ·ᐯᔪᓵᑕᒍ·ᐃᓄ
ᑭ ᐱᒻᒋᒋᐃᑯᓄ

ᓇᒃᐱ ▽ ᒥᔪᓂᒍᓕᓄ
▽ ᒥᓐᔨᑦᐊᓯ

7. ᑕᐱᒃᑯ ᐅᑯ ᓂᖅᓇᓄ
ᑭ ᐯ ᓇᑎᑎᓇᓄ;
ᐅᑦ ᑭᑎᒪᕐᓂᒥᓇᓄ
▽ ᖃᓂᒥᓯᕐᖃᑦ

ᓯᖏᐊᑦᑕᕐᕿᓕᓄ

80. ᐊᓂᓇᓀᒥᑕᓇᐤ

1. ᑭ <ᑭᑎᓇᒪᑎᓇᓵ
ᐅᑯ ᐊᑦᐊᓯᕐᖃᑦ
▽ ᐊᒃᐯᓂᒍᑦᑦᑦ
ᒥ ᐱᒪᒥᐊᒥᑦ

2. ᒣᑦᑲᒻ ᐊᒃᑭᑦ ᑲ ᐃᑕᖃᓵ
ᑭ ᑭ ᑕᑯᓇᐊᑦ
ᐊᑎᑦ ᐊᐱᒃᑕᐊᓯᕐᖃᑦ
▽ ᑭ ᐄᓱᐊᒥᑦ

3. ᐅᑯ ᑦᐱᒃᑯᒻ ᑐᑦᐃᑦ,
ᒥᑕᑦᑫᓪᒪᑦᐃᑦ

ᐹᓕᑯᑦ ᑫ ᐱᐃᒪᑎᓯᒋᑦ
ᑲ ᐃᓇᓴᓂᓕᓵᑦ

4. ᒋ ᒥᓪ ᐱᐃᒪᑎᓯᔭᑦ
·ᐃᒋᐃᓇᓗ ᐅᑯ
ᑭᒋ ·ᐊᐸᑎᓇᑭᒋᑦ
ᑲ ᒥ·ᐊᓯᓂᓂᑦ

5. ᐁ·ᑲ ᒪᑲ ᓂᐱᔭᕐᑫ
ᑮᐱᐢᑯᒃ ᑲᑭᕐ
ᐊᓗᑦ ᓂ ᐞ ᑦᓯᑲᓇᓗ
ᐃᐢᐱᒥᑦ ᑭᓯᑯᑦ

ᓯᑲᐊᑮᕐᑫ·ᐃᓗ

81. ᐊᐳᓇᓄᒥᑦᓇᐤ ᐯᔭᑯᓴᑦ

1. ᑭᒋ ᐊᑐᐢᑲ·ᐊᐟ ᐊᓇ
ᑲ ᑭ ᓂᐳᐢᑕᒪᐢᑦ
ᑭᐟ ᐃᓯ ᐅᑎᓂᑎᓇᑐ
ᐅᒪ ᓂᐱ ᐅᒋ

2. ᐁᑲ ᒋ ᓴ·ᕐᐳᒧᔭᓗ
X ᑭᒋ ·ᐃᑐ·ᐊᐟ

ᑭ ᓄᑎᓂᕐᕆᒪ·ᐊᑦ
ᐁᑲ ᐁ ᓇᑭᓴᓗ

3. ᑭᑭ ᒥᑎᒣ·ᐊᑦ ᓂᕆᑕ
·ᐃᓇ ᐅ ᒣᕆᑲᓇᐤ
ᑭᑭ ᐃᓱ ᐅᑎᓇᒪᓗ
ᑲ ᐃᓱ ᐅᑎᓇᖏ

4. ᐁ ᑭᕆᑭᓄ·ᐊᑭᐃᑕᖏ
ᑭᑭ ᑎᐯᓵᒥᕐᖏ
ᑲᒪ ᑦ·ᐯ ᑭ ·ᐃᒣ·ᐊᑦ
ᒥ·ᓄᓂᒧ·ᐃᓂᖏ

ᐁ ᓱᑲᐊᑦᑕᐊᑲᓂ·ᐃᑦ ᐃᓂᓂᐤ

82. ᐊᓵᓇᓄᒥᕈᓇᐤ ᓂᓱᔪᑊ

1. ᐅ ! ᑭᑭᒪᓂᑐ ᐅᕈ
ᓂᑦ ᐃᓱ·ᐃᓇᓇᑐ
ᑭᑭ ᓱᑲᐊᑦ·ᐊᑭᑦ
ᑭᑦ ᐊᑐᕆᑫᓇᑲᑐ

2. ᑦ·ᐯ ᑭᕆᑫᓵᒥᑎᓱ
ᓇᕆᐱᒉ ᐁ ᒪᒥ·ᕈᑦ,

▽ ᐊᐢᐯᓕᒍᒋᐠ ᒪᑲ
ᑭ ᓴᑭᐃ·▽·ᐃᐣ

3. ᒣ·ᑲᐧ ᓯᑲᐊᑦ·ᐊᑭᐟ
ᐅᒪ ᓂᐱ ᐅᒋ
▽·ᑲ ᑭᓄ ᓯᑭᓭᒪᓂ
ᑲᓭᒋ ᐊᐞ·ᑲ

4. ᒍᓴᐠ ᒥᐣ ᒪᐢᑲ·ᐃᓯ·ᐃᐣ
ᑭᒋ ᐱᐦᒪᑎᓯᐟ
ᑰᐱᐢᑯᐧ ▽ ᐃ·ᑌᒪᑲᐠ
ᑭ ᒪᓯᓭᐃᑲᐣ

5. ᐊ·ᐊᓯᒣ, ᐊ·ᐊᓯᒣ
ᒥᓂᓭᓗ ᑭᐟ ᐊᐞᐟ
ᐊ·ᐊᓯᒣ ᐊ·ᐊᓯᒣ
ᑭᒋ ᓴᑭᐃᑰᐠ

▽ <ᑭᑎᓂᑎᓯᐟ ᐊ·▽ᓭ ᑭᒋ ᐊᑐᐢᑲ·ᐊᐟ
ᑭᒋᒪᓂᑐ·ᐊᐠ

83. ᐊᐅᓭᓄᒥᑕᓭᐤ ᓂᑐᓴᐠ

1. ᐅ ! ᑲ ᑕᔾᓯᓭᐣ ᐊᐢᑭᐠ
ᒥ ᑭᐢᑭᓄᐊᒪᕫᐅᐣ,

ᑭ ᒥᓪ ᓴᑭᐃ·∇·ᐃᑉ
ᑭᑦᓯᑦᓴ ᓂ ᒪᑭᑌᐃᑦ

2. ∇ძᑕ ᑲᑕ ᐃᑦ·ᑲᑌᓄ
ᕝ ᐅᑭ ᓯᑭᓂᓯᓴᓗ
ᒣ·ᑲᒃ ᐱ ᒥᑎᓴᐊᒪᑦ
ᑭ ᒥᓪ ᐊᓪᒥ·ᐃᓇ

3. ᐅ! ᒪᑦᑲ·ᐃᑕ ᓂᑌᐃᑦ
ᒥᓯ·∇ ᑲ ᒥ·ᐊᓯᑭ
ᓂ ᑦ·ᐯᔪᓕᑕᒧ·ᐃᑉ
ᓂᑦᑕ ᑭ ᑭᒥ ᑦ·ᐯ·ᐃᑉ

4. ᒧᓴᑦ ᑭᑦᑭᓄᐊᒪ·ᐃᑉ
ᐅᑕ ᑭᒥ ᑦ·ᐯᑦᑉ
∇·ᑲ ᕝ ᒪᒥᒥᒥᑐ
ᐃᑦᐱᒥᑦ ·ᐊᐸᒥᑕᓄ

∇ ᐊᓕᒥᐃᓇᓂ·ᐊᑦ

84. ᐊᓕᓇᓄᒥᑕᓇᐤ ᓄᐅᔪᑦ

1. ᐅ! ᑲᓇ·ᐊᐸᒥᑦ ᐅᑯ
ᑲ ᐅᑦᑭᓂᑭᒧᑦ, ᐅᑕ

ᐊᓄᒃ ᑲ ᐯᒋ ·ᐃᑕᑭᓵ
ᐅ ᒋ·ᐯᑕᒧ·ᐃᓂ·ᐊᐤ

2. ·ᐁᖏᒃ ᓯᑲᐊᒋ·ᐊ·ᐊᓵ
ᑭᐟ ᐃᓯᓂᑲᓯ·ᐃᓂᓵ
ᒧᓴᓵ ᒥ ᐱᐸᑎᓯᒥᓵ
ᐁ ᐃᓯ ᑲᕐᑭᒪᒥᓵ

3. ᑭ ᐯ ᓇᑕ·ᐊᐸᒥ·ᑲᓵ
ᐁ ᓇᑕ·ᐁᐳᒥᖏᑭᓵ ᒥ
ᐊᐳᒥ ᑲᐸ·ᐱᐊᑭᓵ
ᐅ ᐃᓴᑭᐃ·ᐁ·ᐃᓂ·ᐊᓵ

4. ᑭᖏᑭᓄᐊᒪ·ᐃ ᑭᒥ
ᑭᖏᑭᓯᑐᖏᓵ ᒧᓴᓵ,
ᐅᐟ ᐊᓷᒥᐊ·ᐃᓂ·ᐊᐤ
ᑭᒥ ᑲᓇ·ᐁᐳᑕᑭᓵ

5. ᑭᐟ ᐊ·ᐊᓯᒥᓴᓵ ᑲᑕ
ᐃᑎ·ᐊᓵ ᐊᖏᑭᓵ ᐁᑕᒥᓵ
ᑭᓷ ᑭᒥᑕᖏᑕᒥᔪᓵ
ᒥ ·ᐊᐸᑐᑭᓵ ᑭᓯᔪᓵ

▽ ·△ᑭᑐᓇσ·ᐊᑊ

85. ᐊᐳᓇᓂᒥᒋᓇᐤ σᓗᓇᓄᓴᑊ

1. ᐅ! **X** ᐅᑕ ᑕdᓯσ
▽ ȧᓇᑐᒥᑕᑊ
ᑭᒥ ᒥᐠᑐᑕ·ᐊᑭᑊ
ᐅd ᑲ σᓯᑭᑊ

2. ᐊᓄ⁻ ᐅᑕ ᑕdᓯ·ᓇᑊ
▽ ᓴᖁᐃᑐᑭᑊ
ᖁ′ ᐃᓯσḃᓯ·ᐃσᑊ
ᑭᒥ ·ᐃᑭᑐᑭᑊ

3. ᓯᑭᓇL·ᐃᑊ ᒥᑦᑕᐃ
ᖁ ᒥᐠ ᐊi·ᑲ
ᑭᒥ ᑲᓇ·▽ᐳᑕᖁᑊ
ᐊᓄ⁻ ▽ᑎᑐᑭᑊ

4. ᒧᓴᑊ ᒥ ·ᐃᒥᐃᑐᑭᑊ
ᓴᖁᐃᑐ·ᐃσᑊ
ᐊᓇᒥᓯᑐ·▽ σᑦᑕ
·▽ᓄᑎᓯᑐ·▽

5. ᑦᐱᑦᑯ⁻ ᒥ ᐱᒧUᑭᑊ
ᖁ ᒥᐠ ᒣᑦᑲᓇᑊ

ᑭᐱᓵᓂᒃ ᑎ ᐅᑎᑕᑭᓵ
ᑭᓱ ᐅᑭᒪ·Δ·Δᓗ

ᑭᓴᓵ ᐅ ᓴᓵᓂᒧ·Δᓗ

86. ᐊᓕᓇᓱᒥᑕᓇᓄ ᓂᓂ·ᑕᓯᓴᓵ

1. ᐁᓂ ·ᐊ·ᐁᓯᑕᓂ·ᐊᓗ
ᑭ ᓴᓵᓂᒧ·Δᐢ, ᐅ! ᑭᓴᓵ
ᐁᓂᓯ ᑲᑕ ᓇᑕ·ᒪᐠ
ᒥᓯ·ᐁ ᑭᓱ Δᓂᓂᒧᐠ

2. ᓀᓵᐱᒃ ᒧᑭᕿᓂᑕ·ᒧᐠ
ᐊᓂᑭ ᑲ ᐅᑎᓇᑭᐠ
ᐅᒪ ᑭᑭᑭᓯᐠ ᒥᑭᑦ
ᓂᓵᑕ ᒥᓴ ᒥᓂ·ᕿ·Δᓗ

3. ᕿ·ᑲᐢ ·ᐁᑭ ·ᐊᐸᑕᒣᐠ,
ᐁᑲ ᑲ ·Δ ᐅᑎᓇᒣᐠ;
ᓇᒪ ᓀ ᑭᐳ·ᐊᓄ ᐅᑭ
ᑭ ·Δᓴᕿᐅᑕᑦ ᑭᓴᓵ

4. ᑲᑕ ·Δ ᑭᑐᐅᑕ·ᑲᓗ
ᑭ ᒥᓴ ᒥᑭᓯᓀᑎᐠ

ᐅ! ᑭ ᐱᒪᑭᐃ·∇·ᐃᓗ
·ᐊᐸᑎᓂᑦ ᑭᑐᑌᒪᑦ

5. ᒥᕐᓴ ᑲᑕ ·ᐃ ᓇᑕ·ᒪᑦ
ᓭᖏᐱᒻ ∇ ᓭᓭᖏᑯᒧᑭᑦ
ᕿ ᐅᑭ ᒪᖏᑲ·ᐃᓱᑭᑦ
∇ ᓄᑎᓇᑭᑦ ᓴᕇᓇ

6. ·ᐃᑭᐃᑦ ᑭᐟ ᐃᓂᓂ·ᐊ
ᑭ ᒥᓪ ᐱᒪᑎᓱᑭᑦ;
ᒥᓂᑦ ᒥᓪ ᒥᓂ·∇·ᐃᓗ
·∇ᑭᐸᓂᑦ X ᐅ ᒥᑯᑦ

ᑭᓴᖏ ᐅᓂV·ᕿ·ᐃᓗ

87. ᐊᐳᓇᓄᒥᕇᓇᐤ ᑌᐸᑯᐳᓴᑦ

1. ᑭᓴᖏ, ᑭ ᓇᑐᒥᓗ
ᑭᑭ ᒥᑭᓱᓴᓗ
ᒥᑭᓱᓭᑎᑯᑦ
ᐃᑕ ∇ ᐃᑦᓴᓗ
ᑭᓴᖏ ᑭ ·ᐃ ᑦ·V(ᑎᓗ
∇ᑯ ᑭ ᕆᑯᓱᓂᓴᓗ

2. ᓂ ᒥᑐᓄᐸᑌᑐ
ᑭ ᐊᓱᑭᐃ·▽·ᐃᑐ
ᑲᐊᐸᑎᓂᓴᑐ
ᓄᐳᖏᑕᒪ·ᐃᓴᑐ

3. ᑲ ᒪᑭᑐᑕᖏᑊ
ᒪᒋ ᐃᓂᓂ·ᐊᑊ
ᑲ ᑭᖏᖏ·ᑲᐅᖏᖏᑊ
·ᐊᑭᑊ ᑲᕀᐸᕁᐃᐃᑊ

4. ᐹ ᓯᑲᐃᐹᑌᑊ
ᐊᐹᓱᑌᐊᑎᓯᑊ
ᑭ ᒥᓯᑊ ᑭᖏᐱᑲᑊ
ᑲ ᐅᐹᓱᑲ·ᐃᑊ

5. ᐅᒪ ᑲ ᑐᑭᕐᑊ
ᓂ ᒪᑭ·ᑕ·ᐃᑐ;
ᐅ ! ᓇᖏᐱᒃ ·ᐃᑭᐃᑐ
ᑭᒋ ᑭᖏᑭᓯᓴᑐ

▽ ᓂᐱᓇᓂ·ᐊᑊ ᐅᑭ

88. ᐊᐳᓇᓄᒥᑕᓇᐤ ᐊᐳᓇᓄᐅᕆᑊ

1. ᒪ·ᑌᑎᐣ ᒪ·ᑌᑭᑭᑲᑐ
▽ ᓯ·ᐯᑌᑊ ᐯᓴᑊ ᐊᐁᑊ

ᑲ·ᑫᑭᑫᒧᑦ ᓂᓄ ᓱ
ᓂ ᑌᐸᑫᒧᓗ ᓂᐱ·ᐃᓗ

2. ᓂ ᓴᓴ·ᐃᓗ ᐱᔪ ·ᐁᑭ
ᐱᐹᒪᑎᓵᓗ, ᐸᑎᒪ
ᐅᑎᓇᑫ ᑭᑭᒪᑉ ᑐ
ᓂ ᑲ ᓱᑌᓗ ᔪᑦ ᐊᑉᑭ

3. ᓂ ᑲ ᓇᑲᑌᓗ ᒥᓯ·ᐁ
ᐅᑦ ᐊᑉᑭ ᐁᑦ·ᑲᑭ
ᐁ·ᑲ ᑭᑭ ᐃᑐᑌᓄᓗ
ᑭ ·ᐊᓇᑭᒥᑲ·ᐃᕐᓵ

4. ᐅᒪ ᓇᒪ ᓂ ·ᐃ ᐯᑌᓗ
ᐹᐩ ᐹᐩ ·ᐊᓂᐤ ᓴᑌ,
ᐃᑦ ᐁ ᑦᓯᑫ′ ᓴᑦᓗ
ᐁᔪᑦ ᑫ ᐃᑐᑌᓄᓗ

5. ᐅ ! ᑭᓴᑉ, ᓇᑉᐱᒃ ·ᐃᑭᐃᓗ
ᑭ ᐊᑉᐯᓕᒧᑐᑦᑕᓗ
·ᐁᐱᓗ ᓂ ᒪᑭ·ᑦ·ᐃᓗ
ᒥᓂᑉ ᑭ ᑲᓇᑭ ᐊᐩᓵ

6. ᐁ·ᑲ ᑭᑭ ᔪᑉᑦᑭᓵᓗ
ᐯᑦᒪᓴ ᐁ ᐹᑉᑌᑎᑉ,

ᓂᒃᑕ ᐃᑌᐳᑕᒧᓐᓄᑐ
·ᐃᐸᒃ ᒪᒃᑯᐟ ᓂ ᑲ ᓂᐱᓗ

7. ᓂ ᑲ ᓱᑭᓄᓱᓗ ᒧᒃᑲ
ᑭᒋ ᐯᑦᑖᓗ ᐸᑎᒪ
ᑭᒋ ᑌ·ᐸᓱᓴᓗ, ᐊᒃᑕᐢ!
ᑭ ᑲ ·ᐃᒋ ᑕᓱᕿᒥᓗ

ᐁ ᓂᐱᐟ ᐊ·ᐊᓱᒃ

89. ᐊᐳᓇᓄᒥᑕᓇᐤ ᓴᑯᓴᑊ

1. ᑭ ᒥᒋᓇ·ᐁᓱᓀᓇᐤ
ᐁ ᓂᐱᐟ ᐊ·ᐊᓱᒃ
ᐁᑯ ᐁ ᑭ ᐱᒧᑎᓱᐟ
ᑭ·ᓄᒃ ᐅᑕ ᐊᒃᑭᑊ

2. ᒣ·ᑲᒃ ᒪᑲ ᐱᒥᓱᒪᑊ
ᒋᐸᐳᑲᒥᑯᑊ
ᑭ ᑲ ᐃᑎᑎᓱᑕᓇᐤ
ᓂ ᑲ ᓂᐱᐢ ᓂᒃᑕ

3. ᐊᓅᒃ ᐁ ᑭᓱᑲᑊ ᓂᓇ
ᓂ ᒥᐸᒪᒋᐅᓗ
·ᐊᐸᕐ ᒧᒃᑯᒃ ᓂᐱ·ᐃᓗ
ᓂ ᑲ ᐅᑎᑎᑯᓗ

4. ᐅ! ᐁᑲ ᐸᑭᑎᓇᒧᑦ
ᐸᔪᑲᑕ ᑫᔪᓇ
ᑭᒋ ᐄᔨᑎᐃᔨᐠᑦ
ᐃᑦᐱᐧ ᐁ ᓂᓂᐠᑦ

5. ᐅ! ᒪᒥᓯᑐᑕᐠᑕᓄ
ᑲ ᐱᐃᒪᑎᐃᑕᑦ,
ᑫ ᐅᒋ ᒥᔪᓂᒪᑦ
ᐃᑦᐱ ᓄᐱᔭᑫ

ᐁ ᐸᐢᑲᑦ ᐊᑦᑕᓄᔪᐊᑦ ᐊᔭᒥᐁᔪᐃᑲᒥᑦ

90. ᑫᑲᑊ ᒥᑕᑊ ᑕᑎᑕᓇᓄ

1. ᒪᓄᑐ ᓄᑊ ᐅᓯᑦᐘᓗ
ᐊᔭᒥᔪᐃᑲᒥᑦ
ᐁᔨᑕ ᑭᑊ ᐃᓄᓄᒪᑦ
ᑭᒋ ᐱᑐᑫᒋᑦ ;
ᒥᓪ ᔪᐊᔪᐁᓯᒪᔪᐃᑦ
ᐅᑊ ᐊᒃᔨᔪᐊᔪᐊ,
ᐅᑕ ᒋ ᓇᑭᓴᑐᒋᑦ
ᒋ ᘐᘐᑐᒥᐢᑭᑦ

2. ᐅᑕ ᐊᔭᒥᑦ ᐊᓄᑭ
ᑲ ᐱᐃᑎᓯᒋᑦ

ᑭ᐀ ᐊᓴᒥ·ᐃᓂᐠ ᐅᑎ
ᑭᑎ ᒧᑦᑭᓄᑎ ;
ᓂ ᑲ ᐱᒥᓯᒧᓐᓇᐠ
ᐅᑕ ᑲ ᓂᐱᑎᑦ
᐀ ᑭᖅᑫᓗᑕᒪᐠ ᒥᓇ
ᑭᑎ ·ᐊᓂᖅᑲᑎ

3. ᐅ ! ᑭ ᓇᔨᑕᒪᑎᓐᓄᑉ
ᐅᒪ ᒥᓂᖅᑎᑯᐠ
ᑭᑎ ᑲᓇ·᐀ᓗᑕᒪᓗᑉ
ᑭ᐀ ᐊᓴᒥᐅ·᐀ᑉ
·᐀ᑎᐃᐠ ᒥᓯ·᐀ ᐅᑕ
ᑲ ᐱᒪᑎᓯᑎᐠ
ᑭᑎᑭᓯᑯᐠ ᒣᖅᑲᓇᐠ
ᑭᑎ ᐱᒧᑌᑎᐠ

4. ·᐀ᐸᐧ ᒥᓯ·᐀ ᐁᑕᑎᐠ
ᐅᑕ ᓂ᐀ ᐊᖅᑭᓇᐠ
᐀ᑲ ᑲ ᑭᖅᑫᓗᑕᑭᐠ
ᑭ ᓴᑭᐃ·᐀·᐀ᑉ
·ᐊᖅᑌᓇᒪ·᐀ᐠ ᑭᑎ ᑭ
ᑭᖅᑫᓗᒥᓯᑎᐠ
᐀ᑯ ᒥ ᓀᑕᑎᐠ ✕ ᑕ
ᑫ ᐅᑎᓂᑯᑎᐠ

▽ ᐸᑦbσΔ′ ᐊ·▽ᓇ ᑭᒋ ᐊ)ᒋᑫ′ ᐊᓴᒥᐊ·Δσ᙮

91 . ᑫb′ ᒥ()ᒥᕕᓂ ᐯᓴძᓴ᙮

1. ᔅᑦᓇᓵ! ᓯᑭᓇL·Δ᙮
ᑭ′ ᐊ·ᐊᓯᒥᓴ᙮
ᑲ ᐸᑭՈσՈᓯᒋ᙮
ᒥ ᐊ)ᒋᑫᒋᑕᑭ᙮,
ᐅUΔ·ᐊ᙮ ᑭᒋ Δᑦ′
ᑭ bᓇᒥ ᐅᑦᑦ᙮
ᒥ ·ᐊᒋU·Δσ·ᐊσσ᙮
ᑫ·bᓗ ᑫ ·Δ(ᑭ᙮

2. ᐊᓴᒥ▽·Δbᒥძ᙮
Δᒋᐱ σᐸ·Δᒋᐠᐠᐠ
ᑭᒋ ·ᐊᐸՈᓭ·▽ᒋ᙮
ᑭ ᑦ·V·Δσσ°
bᑫᑕ·▽ᓭᑕᒧ·Δᓗ,
ᓯᑫᓭᑕᒧ·Δᓗ
ᑭ ᑕ·▽ᔪᓭᑕᒧ·Δᓗ
ᐸᑭՈᓇL·Δ᙮

3. ·ΔᒋΔ᙮ ᒥ ᓵᑭᐊᒋ᙮
ᒧ ՈVσLᒋ᙮

ᒥ ᑭᖅᑭᓂᐊᒪᓕᒃᐊᑦ,
ᑭᒥ ᓄᐊᑦᐊᑦ,
ᒥ ᐊᐅᓗᒋᑦᑕᒪᓕᒃᐊᑦ
ᑎᑐᓕᐊᕐᒪᑦ
ᒥᓱᓄ ᐅᑕᑯᓱᐊ
ᒥ ᑲᑭᒥᐊᑦ

4. ᒥᖏᑦ ᑭᒥ ᐯᓱᓕᐊᑦ
ᑎᓴᒍ ᐅ ᓂᐱᓕᐃᓐ
ᒥ ᒪᒥᓱᑐᑕᒪᒥᑦ
ᒥ ᐱᐃᒪᓕᐊᑦ
ᐸᑎᒪᒪ ᑭᑐᑌᓕᓄ
ᐅᑕ ᐊᒍᑭᑦ ᐅᒥ,
ᐅᑎᓂᑦ ᑭᒥ ᐃᑕᒥᑦ
ᐃᒍᐱᒥᑦ ᑭᓱᑯᑦ

ᖁᓕᓂᐅᑕᓕᑲᑦ ᐊᒍᑭ

92. ᓂᑲᑦ ᒥᑐᑎᒋᔪᓄ ᓂᓱᓴᑦ

1. ᑭᒍᖅ ! ᒥᓕᓂᔨᒪᓐᐃᑐ
ᓕᐊᔪᓄ ᐊᒍᑭᑦ
ᐅᑲᔪᑎᓱᐊᑦ
ᐁ ᐃᑕᒥᑦ ;

ᒪ ! ▽ ᓂᒃᒍᒧᑦ
▽ ᒥᓪᓕᔪᑦ,
ᐅᐱᒧᑦᑕᐃ·▽ᓄ
ᐃᒥᒥᑦᒪᓄ

2. ᐯ ᓇᑕᒧᑦ ᐅᒪ
ᒥᓪ ᐊᖏᑭ ;
ᑭᓂ ᑲ ᐃᑎᔪᑦ
▽ ᐯᐅᔪᑦ?
▽ᔨᑕ ᕝ ᑕ·ᒃᑦ
ᑭ·ᐯ ᒥ·ᓴᓂᒍ·ᐃᓗ
ᑲ ᑎᐯᓵᑦᑭᐟ
▽ ·ᐃᕝ·ᐊᑦ

3. ᑲᑭᓴᓄ ▽ᔨᑕ
ᑲ ᐃᑭᑦ
ᑲᓇ·▽ᓵᒥ·ᒃᑦ
ᔨᑕ·ᐃᓇᓄ
ᒥᑭᖏᑕᒧᑦ ᒪᒃ
ᑭᒥ ᕝ ᐅᑎᑕᒣᑦ
ᐃᖏᐱᒥᑦ ᑲ ᑕ·ᒃᑦ
ᑭᒥᐅ·ᐃᓗ

ᒥ·ᓂᓂᒧ·ᐊᑦ ᐃᓱᐱᒥᑦ ᑲ ᐃᑭᒋᑦ

93. ᖃᑲᓴ ᒥᑭᑎᒥᕿᓂ ᓂᓱᔪᑦ

1. ᑭ·ᐯ ᒥᓪ ᐅᕐᓱᒃ·ᐊᑦ
ᐃᓱᐱᒥᑦ ᐁᑭᒋᑦ
ᓇᒪ ᕆ·ᑲᓗ ᐊᑯᓯ·ᐃᓗ
ᑲᑭᖃ ᑭᓯᑲᓂ

2. ᐁᑯᕆ ᑲᑭᖃ ᓂᐱᓗ,
ᐁ ᐅᓴ·ᐊᓱ·ᑲᓱᑲᑦ,
ᓂᐱ·ᐃᓗ ᓯᐱᑦ ᐃᓯᑎᓗ
ᐁ ᑭᐱᓱᑲᑯᓴᑦ

3. ᐊᑲᒥᑦ ᐁᑯᕆ ᕆ·ᑲᓗ
ᐅᒪ ᒥᓪ ᐊᓱᑭ,
ᑲᑭᖃ ᐱᒧᑎᓯ·ᐃᓗ
ᐁᑯᕆ ᐁᕆ·ᑲᑦ

4. ᓂᕆᒪ ᑭ ·ᐁᐱᓇᒪᑦ
ᑲ ᑭᐱᓱᑲᑯᓴᑦ
ᑭ ᓴ·ᖃᓐᒧ·ᐃᓂᓇᓂ
ᑲ ᐅᑭ ᑯᓱᕆᒪᑦ

5. ᑭᓱᓗ ᓂᔪᕆ·ᐃᓇᒪᑦ
ᐅᒪ ᒥᓪ ᐊᓱᑭ

ᒥᓯ·▽ ᓴ·ᑫᓗᒍ·ᐃᓄ
ᑲ ·▽ᐱᓂᑕᓐ

ᐅ·ᑲᓴᖏᑦᑎᓯ·ᐊᑦ ᑭᒥᑭᓯᑯᑦ

94. ᑫᑲ′ ᒥᐅᑐᑕᓐ ᓂᐅᓴᑦ

1. ᐊ ! ·ᐊᓯᓯᒧᑦ ᐊᐞ·ᑲ
ᑕᑌ ·▽ᑎᓐᓇᑭᑦ ;
ᑕᑌ ᑲ ᐅᒥ ᐊᐱᒧᑦ
ᑭᒥ ᐊᐱ·ᐃᓂᑦ ?

2. ᓐᖏᐱ¯ ᑭ ᐊᓐᒥᓯ·ᐊᑦ
ᐊᖏᑭᑦ ᑲ ᐃᑦᒧᑦ;
·ᐊᐱᑦ·ᐊᑦ X ᐅ ᒥᑯᑦ
ᐅᖏᑯᑕᑲ·ᐊᐊ

3. ᐊᓄ¯ ᐅᑎᖏᑲ·ᐃᖏᑲ·ᒪᑦ
ᐅᓯ ᐊᐱ·ᐃᓂᓂᐤ
ᒍᓴᑦ ▽ ᐃᒥᒥᐃᒧᑦ
ᐯᐃᒧᐃᑯᒧᑦ

4. ᓐᖏᐱ¯ ᒍᑭᕐᓂᑦᒪᑦ
ᑭᒥ ·ᐁᐸᐃᒧᑦ ;

▽ ᑭᓯᒃ ▽ ᑎᐱᖏᒃ
ᓂᒃᒍᒧᑦᑕ·▽·ᐊᑦ

5. ▽ ᒃᓐ·▽ᓕᒥᑯᑦ
ᑭᒋᒪᓂᔪ·ᐊ,
ᓐᒪ ᒥᔪᓂ ᕿ·ᒃᓂᓄ
ᑭᑎᒻᒥᓯ·ᐊᑦ

ᑭ ᔪᑌᒥᓐ·ᐊᑦ ᐃᖏᐱᒥᑦ

95. ᕿᒃᑦ ᒥᑯᑎᑕᓐᓄ ᓂᓴᓐᓂᔭᑦ

1. ·ᐃᒋ ᓂᒃᒍᒻᒫᑕᓐᑦ
ᑭ ᔪᑌᒥᓐ·ᐊᑦ
ᐊᓴᓄ ᒃ ᑭ ᐅᑎᑕᑭᑦ
ᒃᑭᕿ ᐊᖏᑭᓵᓄ

2. ᒃ ᐊᔭᒥᐊᑦᑦ ᐊᖏᑦ
ᐊᓯᒋ ᐃᖏᐱᒥᑦ
ᐯᔭᑦ ᑭᒋᒪᓂᔪ·ᐊ
ᑭ·ᐯᓴᓵᓕᒣ·ᐊᑦ

3. ᐊᓴᓄ ᒃ ᐊᓯ·ᐊᐊᑭᑦ
ᓂᐱ·ᐃᓂ ᓯᐱ,
ᒃ ᑌᐱ ᒥ·ᓂᓵᑕᑭᑦ
ᑭ ᐯᐃᑯᓐ·ᐊᑦ

4. σ ρΓᐅᑭᒪΓᓇᓗ
ᐃᑦᐱᒥᑦ ᑲ ᐃᑦᑦ
σ ρ σ>ᑦᑕᒪძᓇᓗ
ᑕ ᐯᑕᓯᔪᑦ

5. ρ ᑲ ᐊᓯ·ᐊᐁᓵᓇᓂ
ᓄᒪ ᓯᐱ ᒥᓇ,
ᐯᔪ·ᑲᓂᑦ ᒥ ᐃᑦᔪᑦ
ᒪᒪ·ᐃ ᑲᑭᕐ

ᑲ ᐱᒧᒥᐃᒥᑦ ᐃᑦᐱᒥᑦ

96. ᕐᑲᑦ ᒥᑐᑎᑕᓇႷ ძ·ᑕᓯᓴᑦ

1. ·ᐊᑦᑲᒻ ᑭᒥ ᐊᐱ·ᐃᓂᑦ
ᓵᑦᐱᒻ ᒥᕐᑦ ᓂᕐ·ᐃ·ᐊᑦ
ᑲ ᑭ ᐱᒧᒥᐃძᒥᑦ
ᑲ ᑎᐯᓗᒥᕐᓂᒥ

2. ᐊᑦᑭᑦ ᒣ·ᑲᒻ ᑲ ᐃᑕᒥᑦ
ᑭ ᓇᓄᑲᑌᓗᒧ·ᐊᑦ,
ᐊᓅᒻ ᐁ ᓯᑭᓄᓯᒥᑦ,
·ᐃᑕᐱᒣ·ᐊᑦ ᒥᓴᓴ

3. ᓇᒪ·ᐃᓗ ᒧᓯᑕ·ᐊᑦ
ᒪᒥᑎ·ᐃᓗ, ᐊძᓯ·ᐃᓗ,

ᒪᑐ·ᐃᓗ, ᐊᓂᒥᓱ·ᐃᓗ
ᓂᐱ·ᐃᓗ ·ᐃᓴᑭᓱ·ᐃᓗ

4. ᐅᐱᒧᒋᐃ·ᐁᒥ·ᐊᓄ
ᒍᓴᑦ ᓂᑲᒍᑦᑕ·ᐁ·ᐊᑦ;
ᐁ ᑭᓱᑲᑦ, ᐁ ᑎᐱᐢᑲᑦ
ᐁᓅᔪᑦ ᒪᒥᒋᒣ·ᐊᑦ

5. ᑭᖏᑌᓅᑕᔪᓱᓄ ᐊᓭ
ᐅᒥᑯ ᑲ ᓱᑭᕐᓂᑦ
ᑭᒋ ᐅᑐᑌᒥᒋᑦ
ᑭᒋᒪᓂᑐ, ᑌ·ᐯ·ᐊᑦ

ᑲ ᐅᑎᑕᑭᑦ ᑭᒋᑭᓱᑦ

97. ᑭᑲᑊ ᒥᐅᒥᑕᓭᓄ ᑌᕐᑯᐅᓴᓗᑦ

1. ᐊᔪᓴᓄ ᑭ ᐅᑎᑕ·ᒪᑦ
ᒥᓵ ᐊᖏᑭ
ᓭᒪ ᐊᓗᒥᓱ·ᐊᑦ
ᓭᒪ ᒥᓭ ᒧᐅ·ᐊᑦ
ᒥᓵ ᐊᖏᑭ

2. ᒍᓴᑦ ᒥᓵ ᑭᓱᑲᓄ
ᒥᓵ ᐊᖏᑭᑦ

·▽ʟ ⅴİᒪᑭΔ·▽′
▽ძᑕ ▽ ·◁ᓯᓱ′
ᒥᓪ ◁ᑉᑭᑦ

3. ᒣᑉbᓇ° ᑭᑭ◁Λᑦ
ᒥᓪ ◁ᑉᑭᑦ,
▽ᑉΛᑭ ᒥᓪᓇ·bᑦ
ᓇᒪ ᑭᑉϤᐳᑕ·bɔ
ᒥᓪ ◁ᑉᑭ

4. >σ ᓇ⊃<ᐳ·◁ᑦ
ᒥᓪ ◁ᑉᑭ
·Δᑭ Λᒧᑌᒣ·◁ᑦ
b σ>ᑉᑕᒪძᑭᑦ
ᒥᓪ ◁ᑉᑭ

5. ᑭ b Δ⊃ᑕᓀᓀ°
ᒥᓪ ◁ᑉᑭ ;
ᑭᓴᑉ ᑭ ḃ ⅴ◁ᓇ°
▽ᑉ·b ϥ ᓇ⊃ᒥᑕᑦ
ᒥᓪ ◁ᑉᑭᑦ

▽ ·◁ᓇ·△ᓇσ·◁ᑊ ◁ᓴᒥ▽·△ᑲᒥᔪᑊ ᐅᒋ

98. ᖃᑲ ᒥᐢᑐᒥᑕᓇᐤ ◁ᐳᓇᓄᐅᓴᑊ

1. ᒋᓴ, ᑭᒋᑎᓴᐅᓇᓕ
   ▽ ᒥᔨᑐᑦ·△ᓴᑊ
   ▽σᔪᑊ ᓯᑭᓄ·△ᓇᓕ
   ᑭ ᓴᖅᐃ·▽·△σᑊ;
   ·△ᒋᐃᓇᓕ
   △ᑦᐱᐨ ᐱᐃᒪᑎᓯᓴᑊ

2. ᑭ ·△ ᓀᓀᑦᔪᒥᑎᓀᓕ
   ᖃᑦᑭᓄᐊᒪ·△ᓴᑊ
   σ ᑲ ·◁<ᑎᐳ·◁ᓇᓕ
   ᓀᑦᐱᐨ ▽ ᓴᖅᐃᑕᑊ
   ▽·◁ᓵ ᐅᒪ
   ᒍᓴᑊ σ ·△ ᑐᑌᓀᐢ

3. ▽ԃ ᓇᑐᒥᑲ·△ᓴᑊ
   ◁ᑦᑭ ᒋ ᓇᑲᑕᒪᑊ
   △ᑦᐱᒥᑊ ᒋ △ᑐᑌᓴᑊ
   ᑭ′ ᐅᑭᒪ·△·△σᑊ;
   ◁ᑦᑕ ᑭᒋ
   ·△ᒋ ᑕᓯᖃᒥᑕᑊ

ᐃᒥᒋᒥ·∇·Δ›

99. ᖃᓄᐊ ᒥᐅᑎᒥᕈᓂ ᖃᓄᐊ ᒥᑕᑐ

ᐅ! ᐃᒥᒋᒪᑕ°
ᐊᓈ ·∇ᓯΔᑐ
ᑲ ᐱᐃᒪΔᑐ
ᑲ ᑲᓈᒋΔᑐ
ᐅ! ᓂᔅ ᐱᔪᑦᑯᔪᑦ
ᑭ ·Δ ᑭᔅᑌᓗᒥᑎᓈ›

ᐃᒥᒋᒥ·∇·Δ›

100. ᒥᑐᒥᕈᓂ°

1. ᐃᒥᒋᒥᑦ ᑭᔪᒪ›ᑐ
ᒥᓯ·∇ ᑭᓄ·ᐊ° ᐊᔅᑭᑦ
ᐊᓯᒋ ᑭᒋᑭᓯᑯᑦ
ᐃᒥᒋᒥᑦ ᑭᒪᒪ›ᑐ

2. ᐃᒥᒋᒥᑦ ᑭᔪᒪ›ᑐ
·∇ᒋᐸᓂᑦ ᑲ ᒥ·ᐊᓯᑦ
ᐅᑕ·Δᒪ° ᑯᓯᓯᒪ°
ᒥᓈ ᑲᓈᑎᓯ′ ᐊᑲᑦ

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101. ᖃᑭᓴᐸ ᓂᑲᒧ·Δᓗ

1. ᑯᖏᓯᓪ, ᑭᑌ·ᐸᑎᐊᓗ ᑭ ᑕᖏᕐᕿ·Δᓗ
·ᐊᓂᖏᑲ ᑭᓂᐯ·Δᓂx ᐅᒋ, ᐅᒋ ᒋ·ᑲᓭᐱ
ᑕᐸᑌᓂᒧ·Δ ᓭᓭᖏᑦ ᑲ ᑭ ᐅᓯᐃᖏᖅ
ᓭᑐᑕᒪ ᑭᒋ ·ᐊᓯ·ᓯ·ᑕᖏ ᐁᒻᒪᒋ ᑭᓯᑲᖅ

2. ᑦ·ᐯ ᑭ ᓱᓴᖏᐊᒥᑎᓗ ᓄᑦ ᓂ ᑭᖅᒪᓂᐅᑦ
ᐅᑕ ᐃᖏᐱ ᓂᐱᒻᑎᓯ·Δᓂx ᐁᑭ ᐯᓯ·Δᒃᓗ
ᑕ·ᑕᓂ ᐁ ᑭᓯᑲᖅ ᑭ ᑭ ᓴᐁ·ᓂᒥᓗ
ᑕ·ᑕᓂ ᐁ ᑎᐱᖏᑲᖅ ᑭ ᑭ ᑲᓭ·ᐁᓂᒥᓗ

3. ᐊᓄᒃ ᐁ ᑭᓯᑲᖅ ᓂᖏᑕ ᓱᑕᒪ·Δᓗ
ᓂ ᐊ·ᑲᑲᑲᖅ ᒥᖏ ᐊᒐᔪ·Δ ᕿ·ᑲᑕ ᑲᓭᖅ
ᓂ ᓂᓭᒥᓯᓗ ᓂ ᑎᑌᓂᑕᔪᓯᓗ ᑭᒋ ᕿᑭᓯᓂᒃᓗ
ᒪᖏᑲ·Δᓯ·Δᓗ ᐁᔪ ᖃ ᐊᓕᒋ ᑲᕿ·Δᒃᓗ

4. ᐊᒋᐱᔪ ᓂ ·Δ ᓭᖏᐱᑕ·ᐊᓂ ᒋᓴᖏ
ᑲ ᐅᒋᕿᓂᖅᐱᒪᓓᓕᒃ·Δᓗ ᓂᖏᑕᓴ·ᐁᓂᒥᖏᖓ·Δᓗ
ᐊ·ᐊᓯᑌ ᑭᒋ ᐄᑭᐃ·ᐁ·Δᓯᒃᓗ ᑲᓭᑎᓯᒃᓗ
ᒥᓕᓂ·ᐁᒃᓗ
ᐁ ᐅᑐᑌᒥᒪᒋ ᒥᓯ·ᐁ ᐃᓂᓂ·ᐊᖅ

5. ᐁᔪ ᒥᓯ·ᐁ ᑕ ᑲ ᐱᒻᑎᓯᕐᓴᖅ ᑭᒋ ᒪᓂᑐ
ᐅᐱᓭᒪ·Δₓᓯᑭᓂᓯ·Δ ᓭᓭᖏᑲᒧᐃ·ᓂᑲᒧᐃ·ᓐ

ᐊᓇ ᑲ ᓂᐳᖏᑕᒪᕐᓗ ᐅ ᐯᓴᑯᑯᓯᓴᓇ
ᒥᓇ ᑲᓇᑎᓯ ᐊᑲₓ ᐁ ᑭᖏᑎᓯ ᓂᖏ ᐯᓴᑯᔪ

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102. ᑭᓴᖏ ᑭ ᐃᑌᐤ, ᒥᓇ ᐁ·ᐊᑯ ᒣᖏᑲᓇᐤ

1. ᑭᓴᖏ ᑲ ᑎᐯᓂᒥᓯ ᑭᒥᑭᓯᑯₓ ᑭ ᐃᐧᑌᐤ
ᐊᓇ ᒥᐧᓂ ᑲ ᐊᖏᐯᓂᒍᐧᐊᕽ·ₓ ;
ᓂ ·ᐁᕐᕿᐧᐤ ᓂ ᑲ ᐱᒥᑎᓴ·ᐊᐤ ᒪᑲ
ᐁ ᓴᑲ·ᐊᒍᔪ ᐱᓂᖏ ᐁ ·ᐊᕐᕿᒪᔪ

2. ᒣᖏᑲᓇᐤ ᑲ ᑭ ᐱᒍᐧᐧᑭᔪ ᐅᑲᓇᑎᓯ·ᐊᔪ
ᒣᖏᑲᓇᐤ ᑲ ᐊᑎᐧᒍᒪᔪ ᓂᓯ·ᐊᓇᑎᓯ·ᐃᓂₓ
ᑭᒥᐅᑭᒪᐤ ᐅ·ᑲᓴᖏᔪ ᓱᐧᑎᓯ·ᐃ ᒣᖏᑲᓇᐤ
ᓂ ᑲ ᐱᒍᐧᑌᔭ ᐁ·ᐊᑯ ᑭᓴᒣᓂᐧᒍ·ᐃ ᒣᖏᑲᓇᐤ

3. ᒣᖏᑲᓇᐤ ᑭ·ᓂᖏ ᑲ ᑭ ᓇᓇᐧᐧ·ᐊᕐᕿᐧᒪᓗ
ᐁ ᓇᓂᑲᒥᒍᓴᓗ ᐁᑲ ᑭ ᐁ ᑭᒥᖏᑲᒪᓗ
ᑭᓂ·ᖏ ᓂ ᑭ ᒪᒥᔪᓗᑐᑌᓗ ᒥᓇ ᑯᓯ·ᑲᒪᒥᑭᓗ
ᐁᑲ ᐁᓱᓂ ᒪᒥ ᐊᓱᑎᓴᓗ

4. ᐊ·ᐊᓯᑌ ᐁ ᑭ ᑯᒥ ᐄᑯᒥᑦᓴᓗ
ᐊᒥᐱᑯ ᓂ ᑭ ᐱᓯᓯᓗ ᒥᓇ ᒪᒥᑐᑌᓗ
ᐱᓂᖏ ᑲ ᐯ ᕿᐊ·ᖏ ᐯᐧᒪᒥᐃᐟ ᐁᐃ·ᑌᐟ
ᐯᒥ ᐃᑐᑌ ᑲ ᐊᐩᑯᑯ·ᐃᓴᓗ ᓂᓇ ᓂ ᒣᖏᑲ-
ᓇ·ᐃᓗ .

5. ᐊ ᐁ ᓯᑭᓂᓴᓐ ᓂ ᑕᑯᓯᓂ ᒥᓇ ᒥᓄ ᐊᐧᐊᓯᓯᐧᐃᐅᓴᓐ

ᑭᓇ ᒪᑲ ᑭ ᑲ ᐅᑎᓂᓐ ᐁ ᐃᑕᑎᓯᓴᓐ ᒪᒋᑎᐧᐃᐟ ᐱᑯ ᓂᑕᓴᓐ ᑭᒋ ᒥᓂᑕᓐ ᐧᐃᑭᐃᓐ ᒪᑲ ᐁᐧᑲ ϥ ᒪᒥᒋᒋᑕᓐ ᓂ ᐱᐃᒪᑎᓯᐧᐃᓂᐤ

6. ᓂ ᑲ ᐧᐃᑕᒪᐧᐊᐧᐊᐦ ᒥᓯᐧᐁ ᐅᑭᑎᒪᑭᒪᒋᑕᐧᐊᐦ ᐁᐟᐱᒋ ᑭᕀᐧᐊᐧᐃᑎᓯᐟ ᐯᐃᒋᓕᐧᐁᐟ ᑲ ᒥᐟᑲᐧᐊᐦ ᓂ ᑲ ᓕᐧᑕᓐ ᑭ ᐱᐃᒋᐃᐁᐧᐃᐧ ᒥᑯ ᐁ ᐃᐧᑌᐦᓴ ᐃᒋᑎᑲ ᒣᐟᑲᓂᐤ ᐅᒋ ᒥᐟᑲᐧᐃᐟ ᑭᕀᑲᓐ)”

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103. ᚷᒪᐟ ᓂᑲᒍᐧᐃᓴ

1. ᒣᐧᑲᐨ ᐅᑲᓀᐧᐃᒪᓴᑎᑘᐧᐊᐦ ᐁ ᑎᐱᐟᑲᓂᐦ ᑲ ᑲᓀᐧᐁᓂᒪᒋᐦ ᑭ ᐯᒋ ᓀᑎᐧᐁᓂᐦ ᐅ ᒪᓀᒋᑯᒥᐧᐊᐧᐊ ᒥᐯ ᐱᒋ ᓀᑎᑯᐧᐊᐧᐃᐦ ᐁᓴᓀᓀ ᒥᒋᒪᓂᐧᐃᐧᐃᐧ ᐊᓴᓴᓂᐤ

2. “ᐁᑲ ᓴᑭᓯᐦ” ᑭ ᐃᑎᐧᑲᐦ ᑭ ᐱᐧᑕᑎᓀᐧᐊᐤ ᒥᓄ ᐊᓴᒥᐧᐃᓴ ϥ ᒥᓄᐧᓂᑕᒥᐅᑯᓴᐦ ᑭᓀᐊᐧᐤ ᒥᓇ ᒥᓯᐧᐁ ᐃᓂᓂᐧᐊᐦ

3. ᑭᓇ·ᐊᐤ ᐅᑎ ᐊᓄˉ ᑲ ᑭᓯᑲᐠ
ᓂᑕ·ᐃᑭᐤ ᑌᐱᐠ ᐅᐠᑎᑕ·ᐃᓂx
ᐅᐱᒪᒋᐃ·ᐁᐤ ᐁ·ᐊᑯ X ᑌᐯᓂᒋᕿᐠ
ᐅᒪ ᒥᓇ ᑭ ᑲ ᐅᑎ ᑭᖏᐳᑌᓇ·ᐊᐤ

4. ᑭ ᑲ ᒥᑲᑲ·ᐊ·ᐊᐤ ᐊᐱᑕ·ᐊᓯᑦ
ᐁ ·ᐁ·ᐁᑭᓂᐟᐟ ᐊ·ᐊᓯᑦ
ᐁ ᐱᒥᓯˣ ᒥᓇ
ᐊ·ᐊᑲᓂᑲᒥᑯx

5. ᖃᑕ·ᐁᓗ ᒪᑲ ᐁᒐᕿᓇ
ᑭ ·ᐃᕽ·ᐃ·ᑲᐠ ᒥᕽᐠ ᑯᑕᑭᓴᐠ
ᐁ ᐃᒥᒋᒪᑊ ᑭᒥᒪᓂᑐ·ᐊ
ᐅᕽᓂᐤ ᒥᓇ ᐁ ᐃ·ᑌᑊᐠ

6. ᑲᑕ ·ᐃ ᐃᒥᒋᒪᐤ ᑭᒥᒪᓂᑐ ᑭ ᑭᒋᑭᓯᑯx
ᒥᓇ ᐅᑕ ᐊᑦᑭx ᑲ·ᐃᑕ·ᑲᑐ
·ᑲᓴᑦ·ᑲᑎᓯ·ᐃᓗ ᐊᐸᓯᐸᓂ·ᐊᐠ
ᑲᑕ ᓴ·ᐁᓂᒪᑲᓂ·ᐃ·ᐊᐠ

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104. ᐃᐱᐸᓂ ᓂᑲᒧ·ᐃᓗ

1. ᐯᒋᑐᑌ ᒋᓴᑦ ᑭ·ᓄᑦ ᑲ ᐯᐃᑲ·ᐃᓴᑐ
ᑲ ᓂᑕ·ᐃᑭᓴᓗ ᑭᒋ ᐊᐸ·ᐊᒋᐠ ᑭ ᑎᓂᓂᒪᐠ

ᒥᑕ·ᕐᓇᒪ·ᐃᓇᓗ ᓂ ᒪᒋᑎ·ᐃᓂᓇᓇ
ᒥᓂᓇᓗ ᑭᓴᒣ·ᐃᓯ·ᐃᓗ

2. ᐃᖏᐅᐁᐃᕄ ᐅ ᒪᖏᑲ·ᐃᓯ·ᐃᓗ ᑭᐢᑕ·ᐃᓗ
ᑭᐟ ᑕᖏᐯᓂᒍᑕᑲ·ᑲᓵ ᒥᓯ·ᐁ
ᑭ ᓇᑕ·ᐁᐳᒥᑲ·ᓵ ᒥᓯ·ᐁ ᐁ ᐃᑕᖏᑲᓂᓯᑭᓵ
ᑭ ᒥ·ᓂᓂᑕᒥᐊ·ᐊᓵ ᒥᓯ·ᐁ ᑭ ᑎᓂᓂᒪᓵ

3. ᑭ ᑭ ᓂᑕ·ᐃᑭᓗ ᑭᒋ ᐱᐃᒪᑎᐊᒋᓵ ᑭᐟ ᑎᓂᓂᒪᓵ
ᐁ ᐊ·ᐊᓯᓯ·ᐃᓴᓵ ᐅᑕ ᐁ ᑭᒋᐅᑭᒪ·ᐃᐅᓴᓗ
ᐁ ᓂᑕ·ᐃᑭᓴᓗ ᑭᒋ ᑎᐯᓂᐱᖏᖅᑲ·ᐃᐅᓴx
ᐁ·ᖅ ᐅᑎᑭᐸᓂᑕ ᑭ ᑐᑭᒪ·ᐃ·ᐃᓗ

4. ᑭ ᑕᒐx ᐅᒋ ᖅᑭᕘ ᖅ ᐃᑦ,
ᑎᐯᓂᒋᕘ ᓂᑌᐳᓇx ᐁ ᐯᓴᔨᓴᓗ
ᑭ ᖅᓴᖕ ᑭᑕᑎᓯ·ᐃ ᖅᖖᐅ·ᐃᓗ ᐅᒋ
ᐅᐱᓂᓇᓗ ᑭᒋ ·ᐃᒋ ᑎᐯᓂᒋᕘᒥᒥᑕx

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105. ᐁ ·ᐃᒋᒥᖅᑌᖕ ᒪᒋᑎ·ᐃᓗ

1. ᑌᐯᓂᒋᕘᓴᓗ ᑭ ᓇ·ᐊᑭᖕᑕᑎᓀᓗ
ᓂ ·ᐃᑌᓀᓐ ᓂ ᒪᒋᑎ·ᐃᓂᓇᓇ
ᑭᖕᑭᓄᐊᒪ·ᐃᓇᓗ ᑭᒋ ᒍᓯᑕᓴx ᐅᐅ
ᒥᓇ ᑭᒋ ᐸ·ᖅᑕᒪx ᐊᓂᐃᐃ ᖅ ·ᐃᑕᒪx

2. ᐁ ᐱᑯᓯᑭ ᓂ ᑕᒃᑯᓇᓇᑦ ᑲᓇ·ᐊᐸᒥᑦ
ᒥᒥᓇ·ᐁᔪᓂᑕᒍᐃ·ᓗ ᒥᓇ ᒥᓂᓇᓗ
·ᐊᔪᖅᒪ·ᐃᓇᓗ ᓂᑌᓵᓇᕽ
ᐁᑯᑕ ᑭᒥᑕ·ᑲᕽ ᐊᐢᐯᓂᒍ·ᐃᓗ

3. ᐁ ·ᐃᑕᒪᑕᕽ ᑲ ᐸᑯᔪᓂᒥᑕᕽ
ᑎᐯᓂᑕ ᓂ ᑎᑌᓂᑕᒍ·ᐃᓂᓇᓇ,
ᐁᑲ ·ᐊᑦᔪᐢ ᑭᒥ ᓇᐅᑕᒪᑕᕽ
ᐁᑲ ᕿ ᐠᐯᓂᑕᒪᕽ ᑭᒥ ᒥᓂᐳᕽ

4. ᐁᑯᓯ ᑦ·ᐯᔪᓂᑕᒍ·ᐃᓗ ᓂᑌᐃᓇᕽ
ᑲᑕ ·ᐊᐢᑌᐤ ᐁ ᐊᐳᒥᐁᐢᑦᑕᕽ
ᕿ ᐅᒥ ᒥᐅᓂᑕᒪᕽ ᐁ ᒥᓂᐳᕽ
ᒥᓇ ᐁᑲ ᐁ ᒥᓂᐳᕽ ᑲ ᓇᐅᑕᒪᑕᕽ

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106. ᐅᐱᐢᑲ·ᐃ ᓂᑲᒍ·ᐃᐣ

1. ᑲᕽᐟ ᑭ ᐅᐱᐢᑲᐤ ᐁ ᒥᓁᓂᑕᒍ·ᐃ ᐯᑕᑯᓯ-
ᓇᓂ·ᐊ
ᑭ ᐃᐅᑌᐤ ᐅ ·ᐊᔪᖅᓯ·ᐃ ᐃᑕ·ᐃᓂᕽ
ᐯᒥ ·ᐊᐢᑲᑲᐸ·ᐃᐢᑕᑯ ᒥᓯ·ᐁ ᐁᒐᓇ
ᐅ ᑭᒥᒪᓂᐅᒥ·ᐊ·ᐊ ᐁ ᓇ·ᐊᑭᐢᑕ·ᐊᒥᑦ

2. ᑭ ᐃᐅᑌᐤ ᐅ ᑭᒥᐊᐱᐃᓂᕽ ᐃᐢᐱᐃᒥᕽ
ᑭᒥ ᐅᑎᓇᕽ ᐸᐢᑭᓇᑫ·ᐃ ᐊᐢᐅᑎᓂᓂᐤ

ᐊ·ᐊbσΔ·∇·Δ› ᐊ·ᐊbσᑕ°
ᒥᓇ ᐸ·bᑭbᓇ b ᑭ ᓴdᑭᐊ′

3. ᑭ Δ›U° ᑭᑦ ᐸᑭᑎᓇL·ᐊ′
ᐅLᑭ·ᑕ·ᐊ ·∇ᓂᑎᓯ·Δ ᓴ·∇σᒥᑫ·Δᓇ
ᑭᑦ ·ᐃ·∇ᓯᑕL·ᐃ′ Δᑕ ϙᐳᑕσᒥ ᐅ ∩σσL
ᑭᑦ ·∇ᓂᑭᐊ′ bᓇᑦ ᐊᒃ·b

4. bᔆ^ ᑭ ᐅᐱ^b° ∇ ᒥᓇ·ᐊ∩dVᑕdᓯᓇσ·ᐊx
ᑭ Δ›U° ᐅ ·ᐊᓯᓯ·Δ Δᑕ·Δσx
·Δᑦ σbᒍLᑦσ‘ ϙᓇ∩ᓯᑦ‘ ∇›ᒐᓇ‘
∇ LᒥᑭLx b ᐅᐱ^b′ ᑭ ᑭᒪLσ›ᒥᓇ°

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107. σ ᑭ Vᑕ·ᐊ° ᑭᓴ^

1. σ ᑭ Vᑕ·ᐊ° ᑭᓴ^ ∇ Δ·U′
Vᑦ ᓇᓯ› ᑭᑦ ᐊ·ᓄᐱᓗ›
ᐱᒥ∩ᑕ ᑭ^∩·b› ᐱᒥ∩ᑕ
b ᐊᔦ^dᓯᓗ› σ ᐱᓂᒍ·Δσx
ᑭ bᓇᑕ° ᑭᓴ^ b Δ∩ᓗᐸ›
∇ ᐃᔦ^dᓯᓱ› ∇ ᒥᓴᒣσᑕᒐ›
∇dᑕ b ᒥ^bL› σ ᑕ·ᓄᐱ·Δ›
σ ᑭ ᒥ·ᓄσᑕᒥΔ‘ Lb

2. σ ρ ⅴᑕ·◁◦ ᒥᔭᑦ ▽ △·Uʹ
ᒪᑎᑲ ᒍᔪ σ ᒥᓇ·◁ˑ
ʌᐃᒪᑎᓯ·△ σʌ σᓭᑕᓴᑫᓴ›
ᓇ·◁ᑭᑲᑦ·△ ᒥσ·٩ ʌᐃᒪᑎᓯ ᒪᑲ
σ ρ ᓈᑕ◦ ᒥᔭᑦ σ ρ ᐅᒋ ᒥσ·ᑲ›
◁σᒪ ʌᐃᒪᑎᓯ·△ ᓯʌᐧx
σ ρ ᑌʌ ᒥσ·ᑲ› σ ᑕᒃx ρ ◁ʌᓯᓯ›
◁ᓄ⁻ ᒪᑲ ▽ ʌᒥ˜ ᑲ·◁ˑ σ ʌᐃᒪᑎᓯ›

3. σ ρ ⅴᑕ·◁◦ ᒥᔭᑦ ▽ △·Uʹ
σᓴ σ ·◁ᔪᓴᓯ·△σ·△ᐢ ᐅᒪ ᑎʌᐢᑲ ·△
◁ᐢṗx
ᑲᓇ·◁ᐸᒥˑ ▽·ᑲ ٩ ·◁ᐢᑌᓇᒪ·ᑲ·△ᓴᐢ
ᒥᓇ ٩ ·◁ᔪᓴᓯᓴᐢ ▽ᐢᑯ ρᓯᑲˑ
σ ρ ᑲᓇ·◁ᐸᒪ◦ σ ρ ᒥᐢᑲ·◁◦ ᒪᑲ
▽ ◁·△ʹ σ ᑕᒃx σ ʌᓯᒧᑦ
ᐅᒪ ·◁ᔪᓴᓯ·△σx ᒪᑲ σ ᑲ ʌᒧᑕ›
>σᐸσ·ᑲ·▽ ʌᒧᑌ·△ ρᓯᑲ·◁

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108. ·△ᓴᑕᒧˑ ᑕᐸᑌσᒧ·△›

1. ᑌⅴᐳᒋ٩ᓴ› ᒥσᓴᓂ ρ ᔪ·▽σᒋ٩·△›
▽ ρᑎᒪᑭᓯᓴᐢ σ ᑕᑌᑯx ▽ ᓄᐢʌᓯᓴ› σ
ᑌ△x

σ b ᓇᒧᐸᑦᐊᐤ σ ᑐᑭᒪᑦ
∇ ᑭᑭᒧᑲᒪᓗ ᑦᐸᑌᓱᒧᑐᔪᓗ

2. ∇ ᑭᒧᑭᓄᐊᒻᒪᔪᐃᓱᓗ ∇ ᑭᓴᒣᐦᐃᓱᓗ
∇ ᓇᒧᐸᑦᐊᐦ ᐊᐱᒧᑦᐊᓱᒧ
∇ ᒥᐦᓂᓂᑦᒪᓗ b ᒥᓂᐦ ᑌᐯᓱᒥᕐᖏ
∇b ᔪᑦᐦ ᕐᐦᓗ ∇ ᓇᑦᐦᐃᓱᑦᒪᓗ

3. ᓄᑦᐤ σ ᑎᑦᐤ σ ᑦᒪx ᑭᒥ bᓇᐊᐦᐸᒥᒧᐦ
ᒥᓱᐦᐁ b ᒪᓇᑦᑭ ᑭᒥ ᐦᐁᐱᓇᒪᓗ
ᐱᓱᓱᐦ ᑭᒥᑭᓱᐦ ᕐᐦbᓇ ∇ ᓇᑦᐦᐁσᑦᒪᓗ
∇ ᒥᐦᓂᓂᑦᒪᓗ ᐱᔪ ᑭ ᓰᑭᐃᐦᐁᐦᐃᐦσx

4. σᑦᒪ ᒥᓱᐦᐁ ᓇᓇᑦᐦᐁσᑦᑭᐦ ᒥᓇ ᒥᒧbᑭᐦ
ᒧᓴ b ᒥσᐦᐁσᒥ bᔪᒧᑦ
∇ᔪᓱ ᒥᓱᐦᐁ ᐃᒧᔪᐁᔪᐃ bᑦ ᑭᒧᑌσᒣᐤ
ᐊᒧᐱσᒧᑐᑦᐦᐁᐤ ᒪᒥᒥᒣᐤ bᑭᕕ

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109. σ ᐦᐃ ᐃᐦᑐ ᐯᓱᐟ ∇ ᐃᑦ σᑐᐱᐃᒪᒥᐃᐁᐦᑦ

1. ᐅᑦ bᑭᕕ σ b ᐊᐦᓂᐃᓗ
ᐯᓱᐟ ᑭᒧᐱbx ∇ ᒥᔪᐦᐊx
ᐅᒪ ∇ᐦᐊᔪ b ᐊᒧᐯᐸᒧᑐᑦᒪᓗ
σ ᑭ σᐳᒧᑦᒪᖏ ᐅᐱᐃᒪᒥᐸᐁᐦᐤ

2. σ ϽΛİLΓΔ∇·ᑦ ρσΛ·Δσₓ
b ᐅΓ ⊥ᑫPΓ·◁ₓ LΓ·ᑦ·Δ› ᐅΓ
·◁ᑫᓴ·ᓴΛᓀL·Δ› ρ Γժ
bᓀΓΔ› ⊥ᓴᑊ ρΓ bᓀՈᓯᓗ›

3. ρΓᑫᑦ<·◁σ› ∇·b 9 ·Δ٩·Δᓗ›
ρΓᑫᑦ<·◁σ› ∇·b 9 ·Δ٩Δᑐ
ρΓᑦ<·◁σ› ᓀL Lb σ ᓯᑦ Λժ
σ ΓΓᓗ σ ᑫՈb·› σ ∪Δ

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110. ᐅᑦժᓯ σbJ·Δ›

1. ρᓴLσ› b ᐅᓯᑦᓗ› ρᓯᑊ Γᓀ ◁ᑫρ,
ՈΛᑫρᓯ·Δ› Γᓀ ·◁ᑫU·Δ›
b Γσ·∇ᓗ› ∇ ρᓯbᑊ ρΓ ◁›ᑫbσ·◁ₓ
∇ ՈΛᑫbᑊ ρΓ ◁·ᓄΛᓀσ·◁ₓ
∇ժᓯ σ b ᓀᑦLժᓀᓀᑊ ρU› Lσᒪᑊ
σ b Γᓴ·bΓᐳժᓀ› ρ ᓴ·∇ᐳΡ·٩·Δ›
b ᓀΓ <·◁Γ·Δᓀ σ ḃ ᐅՈՈժᓀ›
٩ᐳ·ժ ՈΛᑫbʹ

2. bᓀ·∇ᐳΓᓀ› ∇ ժᑫᓯᓗₓ Γᓀ ∇ σ<ᓗₓ
Δᑫ Λ İb σ Λᓄᑊᑊ٩·

ᐁᑯᓗ ᖳ ᒥᓄ ᑲᓇ·ᐁᓂᒥᑦᕋᓪ
ᓂ ᑲ ᑭᐳᒥᐊᓂᓇᓄ
ᐃᐢᐱ ᐃᒥᓗ ᑯᐢᑯᓂᑲ·ᐃᐅᐳᖳ
ᐁᑲᐃ·ᐳ ᓇᑲᓗᓇᐢ ᐅ ᑭᖅᒪᓂᔪ
ᐅᑎᓂᓇᓄ ᒪᑲ ᑭᐢᑌᓂᑕᑯᓗ·ᐃᓂᓪ
ᑭᒋ ·ᐃᑕᐱᒥᑦᓪ ᑭᒋᑭᓗᑯᓪ

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